

EXHIBIT 5

UNITED STATES DISTRICT COURT
WESTERN DISTRICT OF TEXAS
WACO DIVISION

MV3 PARTNERS LLC,

Plaintiff,

v.

ROKU, INC.,

Defendant.

Civil Action No.: W-6:18-cv-00308-ADA

JURY TRIAL DEMANDED

ROKU’S OBJECTIONS IN RESPONSE TO MV3’S INITIAL EXHIBIT LIST

Roku submits the attached objections to MV3’s initial exhibit list. As a general matter, Roku objects to MV3’s exhibits for failure to indicate whether they are public or confidential, and Roku requests that MV3 re-submit its list with exhibit numbers appropriately indicating which exhibits are confidential. Roku also objects to MV3’s identification and labelling of what appear to be physical exhibits (the exhibits designed as PTX-626-637) as documentary trial exhibits as opposed to physical exhibits, and requests that MV3 re-designate those exhibits. Roku further objects to specific exhibits as indicated in the attached charts.

Respectfully submitted,

/s/ Alexander J. Hadjis

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JUDGE ALAN D. ALBRIGHT

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EXHIBIT NO.	EXPECT TO OFFER	MAY OFFER	EXHIBIT DESCRIPTION	EXHIBIT DATE	BATES RANGE	MV3's OBJECTIONS	ROKU's OBJECTIONS
PTX-001	x		U.S. Patent No. 8,863,223 to Abbruzzese	10/14/2014	MV3_ROKU0000001-MV3_ROKU0000013		
PTX-002	x		Certified U.S. Patent No. 8,863,223 to Abbruzzese	10/14/2014	MV3_ROKU0005860-MV3_ROKU0005874		
PTX-003	x		Prosecution History for U.S. Patent No. 8,863,223 to Abbruzzese	10/8/2009	MV3_ROKU0000014-MV3_ROKU0000819		
PTX-004	x		Certified Prosecution History for U.S. Patent No. 8,863,223 to Abbruzzese	10/8/2009	MV3_ROKU0015783-MV3_ROKU0016685		
PTX-005	x		Original Application Papers - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	10/8/2009	MV3_ROKU0000014-MV3_ROKU0000059		106; 403
PTX-006	x		Preliminary Amendment - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	3/28/2010	MV3_ROKU0000501-MV3_ROKU0000510		106; 403
PTX-007	x		Preliminary Amendment - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	2/25/2011	MV3_ROKU0000512-MV3_ROKU0000521		106; 403
PTX-008	x		Non-Final Office Action responsive to communication filed February 25, 2011 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	10/4/2011	MV3_ROKU0000531-MV3_ROKU0000545		106; 403
PTX-009	x		Petition for One-Month Extension of Time and Amendment in Reply to Action of October 4, 2011 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	2/6/2012	MV3_ROKU0000561-MV3_ROKU0000573		106; 403
PTX-010	x		Interview Summary for Interview held March 19, 2012 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	3/19/2012	MV3_ROKU0000579, MV3-ROKU-0000582-MV3_ROKU0000584		106; 403
PTX-011	x		Final Office Action responsive to communication filed February 6, 2012 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	5/10/2012	MV3_ROKU0000585-MV3_ROKU0000603		106; 403
PTX-012	x		Applicant-Initiated Interview Summary for Interview held August 15, 2012 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	8/21/2012	MV3_ROKU0000616-MV3_ROKU0000618		106; 403
PTX-013	x		Amendment in Reply to Action of May 10, 2012 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	11/13/2012	MV3_ROKU0000622-MV3_ROKU0000633		106; 403
PTX-014	x		Non-Final Office Action responsive to communication held November 13, 2012 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	12/24/2012	MV3_ROKU0000639-MV3_ROKU0000656		106; 403

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PTX-015	x		Amendment in Reply to Action of December 24, 2012 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	6/24/2013	MV3_ROKU0000660-MV3_ROKU0000673		106; 403
PTX-016	x		Interview Summary - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	6/27/2013	MV3_ROKU0000681-MV3_ROKU0000683		106; 403
PTX-017	x		Applicant-Initiated Interview Summary for Interview dated June 20, 2013 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	6/20/2013	MV3_ROKU0000682		106; 403
PTX-018	x		Final Office Action responsive to communication filed June 24, 2013 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	10/10/2013	MV3_ROKU0000690-MV3_ROKU0000709		106; 403
PTX-019	x		Amendment in Reply to Action of October 10, 2013 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	4/10/2014	MV3_ROKU0000719-MV3_ROKU0000734		106; 403
PTX-020	x		Non-Final Office Action responsive to communication filed April 10, 2014 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	5/14/2014	MV3_ROKU0000742-MV3_ROKU0000750		106; 403
PTX-021	x		Reply to Action of May 14, 2014 - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	7/24/2014	MV3_ROKU0000763-MV3_ROKU0000777		106; 403
PTX-022	x		Notice of Allowance - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	8/11/2014	MV3_ROKU0000783-MV3_ROKU0000789		106; 403
PTX-023	x		Reply to Notice of Allowance - excerpt from the Prosecution History for U.S. Patent No. 8,862,223	9/5/2014	MV3_ROKU0000809-MV3_ROKU0000810		106; 403
PTX-024	x		U.S. Provisional Application No. 61/142,190	12/31/2008	MV3_ROKU0000820 - MV3_ROKU0000852		106; 403
PTX-025	x		U.S. Patent Application Publication No. 2007/0287498 to Wang <i>et al.</i>	12/13/2007	N/A		401/402; 403
PTX-026	x		U.S. Patent No. 7,035,598 to Lochner <i>et al.</i>	4/25/2006	N/A		401/402
PTX-027	x		U.S. Patent No. 7,957,733 to Wang <i>et al.</i>	6/7/2011	ROKU00003464-ROKU00003502		
PTX-028	x		U.S. Patent No. 8,135,342 to Harold	3/13/2012	N/A		
PTX-029	x		U.S. Patent No. 8,879,987 to Harold	11/4/2014	N/A		
PTX-030	x		U.S. Patent Publication No. 2006/0031889 to Bennett <i>et al.</i> ("Bennett")	2/9/2006	ROKU00002385-ROKU00002404		
PTX-031	x		U.S. Patent Publication No. 2008/0198264 to Balram ("Balram")	8/21/2008	ROKU00002345-ROKU00002380		

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PTX-032	x		DIAL Discovery And Launch protocol specification, Version 2.2		MV3_ROKU0005547-MV3_ROKU0005588		
PTX-033	x		Roku Express product information, available at https://www.roku.com/products/roku-express (accessed December 31, 2019)		MV3_ROKU0005875-MV3_ROKU0005892		
PTX-034	x		Roku Express+ product information, available at https://www.roku.com/products/roku-express-plus (accessed December 31, 2019)		MV3_ROKU0005907-MV3_ROKU0005924		
PTX-035	x		Roku Premiere product information, available at https://www.roku.com/products/roku-premiere (accessed December 31, 2019)		MV3_ROKU0005925-MV3_ROKU0005942		
PTX-036	x		Roku Smart Soundbar product information, available at https://www.roku.com/products/audio/roku-smart-soundbar (accessed December 31, 2019)		MV3_ROKU0005943-MV3_ROKU0005969		
PTX-037	x		Roku Ultra product information, available at https://www.roku.com/products/roku-ultra (accessed December 31, 2019)		MV3_ROKU0005970-MV3_ROKU0005989		
PTX-038	x		Roku Streaming Stick product information, available at https://www.roku.com/products/streaming-stick (accessed December 31, 2019)		MV3_ROKU0006011-MV3_ROKU0006024		
PTX-039	x		Roku Streaming Stick+ product information, available at https://www.roku.com/products/streaming-stick-plus (accessed December 31, 2019)		MV3_ROKU0006025-MV3_ROKU0006043		
PTX-040	x		Roku Support, “How do I use screen mirroring with my Android or Windows device?,” Roku, available at https://support.roku.com/article/208754928-how-to-use-screen-mirroring-with-your-android-or-windows-device (accessed February 8, 2019)		MV3_ROKU0006063-MV3_ROKU0006067		
PTX-041	x		Roku Support, “Can I display content from my phone on my TV using a Roku streaming device?” Roku, available at https://support.roku.com/article/360003044933-can-i-display-content-from-my-phone-on-my-tv-using-a-roku-straming-device- (accessed January 7, 2020)		MV3_ROKU0006071-MV3_ROKU0006073		
PTX-042	x		Roku Product Comparison		MV3_ROKU0006074		
PTX-043	x		Roku TV, Options for every room, available at https://www.roku.com/products/roku-tv/options-for-every-room (accessed January 7, 2020)		MV3_ROKU0006079-MV3_ROKU0006086		
PTX-044	x		Roku Support, “How do I change the display type on my Roku streaming player?,” Roku, available at https://support.roku.com/article/115009246867-how-to-change-the-display-type-on-your-roku-streaming-player (accessed February 8, 2019)		MV3_ROKU0006087-MV3_ROKU0006090		

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PTX-045	x		Roku Blog, "How to watch local channels, news and weather on your Roku player and Roku TV," Roku, available at https://blog.roku.com/blog/2017/09/07/how-to-watch-local-channels-news-and-weather-on-your-roku-player-and-roku-tv (accessed February 8, 2019)		MV3_ROKU0006091-MV3_ROKU0006094		403; 801/802
PTX-046	x		Roku, "Who is Roku?," available at https://www.roku.com/how-it-works (accessed February 8, 2019)		MV3_ROKU0006095-MV3_ROKU0006100		
PTX-047	x		Roku TV, Your guide to HD, 4K Ultra HD, and HDR with Dolby Vision, available at https://www.roku.com/roku-tv/picture-quality (accessed February 8, 2019)		MV3_ROKU0006101-MV3_ROKU0006106		
PTX-048	x		Roku Premiere+ product information, available at https://www.roku.com/products/roku-premiere-plus (accessed January 7, 2020)		MV3_ROKU0006149-MV3_ROKU0006157		
PTX-049	x		"Roku refreshes streaming player line-up with new budget and 4K boxes," (September 26, 2016), available at https://newatlas.com/roku-express.premiere-ultra/45614/ (accessed January 7, 2020)	9/26/2016	MV3_ROKU0006158-MV3_ROKU0006165		401/402; 801/802; 901
PTX-050	x		Roku Smart Soundbar product information, available at https://www.roku.com/products/audio/roku-smart/soundbar (accessed January 7, 2020)		MV3_ROKU0006166-MV3_ROKU0006180		
PTX-051	x		Roku TV features, available at https://www.roku.com/products/roku-tv/features (accessed January 7, 2020)		MV3_ROKU0006181-MV3_ROKU0006188		
PTX-052	x		Roku TV Entertainment for everyone, available at https://www.roku.com/products.roku-tv/multiple-ways-to-watch (accessed January 7, 2020)		MV3_ROKU0006189-MV3_ROKU0006195		
PTX-053	x		Samuel Axon, "Roku Ultra and Streaming Stick+ review: High-end streaming with low-end frills," (December 2, 2017), available at https://arstechnica.com/gadgets/2017/12/roku-ultra-and-streaming-stick-review-high-end-streaming-with-low-end-frills/2/ (accessed January 7, 2020)	12/2/2017	MV3_ROKU0006211-MV3_ROKU0006216		401/402; 801/802; 901
PTX-054	x		Erin Lawrence, "Which of the 5 new Roku streaming TV players is right for you," (November 22, 2016), available at https://blog-bestbuy.ca/tv-audio/tv-home-theatre-tv-audio/which-of-the-5-new-roku-streaming-tv-devices-is-right-for-you (accessed January 7, 2020)	11/22/2016	MV3_ROKU0006242-MV3_ROKU0006244		401/402; 801/802; 901

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PTX-055	x		Seth Porges, "Why You Should Upgrade To The Roku Ultra Set-Top Box," (September 28, 2016), available at https://www.forbes.com/sites/sethporges/2016/09/28/why-you-should-upgrade-to-the-roku-ultra-set-top-box/#765690ae3c06 (accessed February 8, 2019)	9/28/2016	MV3_ROKU0006245-MV3_ROKU0006246		401/402; 801/802; 901
PTX-056	x		RokuDIALSDK.zip		MV3_ROKU0006247 [produced as native zip file]		
PTX-057	x		Roku Support, "How to Use Screen Mirroring with Your Android or Windows Device?," Roku, available at https://support.roku.com/en-ca/article/208754928-how-to-use-screen-mirroring-with-your-mobile-device (accessed December 19, 2019)		MV3_ROKU0008688-MV3_ROKU0008696		
PTX-058	x		"How can I make sure Netflix plays in HD?," available at https://help.netflix.com/en/node/11559 (accessed January 14, 2020)		MV3_ROKU0010648-MV3_ROKU0010649		401/402; 801/802; 901
PTX-059	x		Presentation titled, "Liberty Hardware Reference" by Ken Krakow	3/1/2016	ROKU00004265-ROKU00004291		
PTX-060	x		Presentation titled, "Longview Hardware Reference" by Ken Krakow	2/28/2017	ROKU00004292-ROKU00004321		
PTX-061	x		Presentation titled, "Midland Reference Design" by Tim Wegesin		ROKU00004322-ROKU00004348		
PTX-062	x		Schematic for Bryan MP PCB		ROKU00005304-ROKU00005324		
PTX-063	x		Matthew Needes, "Elk Remote Control Authentication," Remotes - Roku CONFLUENCE	7/22/2019	ROKU00006250-ROKU00006251		
PTX-064	x		Gary Ellison, "Lightweight ECP Authentication and Authorization," Trust Engineering - Roku CONFLUENCE		ROKU00006257-ROKU00006260		401/402; 403
PTX-065	x		Kevin Cooper, "External Control Protocol (ECP-1)," OS Front-end Engineering - Roku CONFLUENCE	3/12/2019	ROKU00008366-ROKU00008367		401/402; 403
PTX-066	x		FAQ: How to use screen mirroring with your Android or Windows device - Roku CONFLUENCE	6/19/2019	ROKU00008381 -ROKU00008386		
PTX-067	x		Radhika Paralkar, "Utilities Module," Embedded development - Roku CONFLUENCE	3/20/2019	ROKU00008673-ROKU00008679		
PTX-068	x		[MS-MICE]: Miracast over Infrastructure Connection Establishment Protocol	9/12/2018	ROKU00008717-ROKU00008766		

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PTX-069	x		C2028932_Roku-MV3 prepared by TransPerfect Legal Solutions	8/20/2019	ROKU00009465-ROKU00009559		
PTX-070	x		Roku Developer, "External Control Protocol (ECP)"		ROKU0028140-ROKU0028161		401/402; 403
PTX-071	x		Roku Support, "How Do I Display Photos, Videos, and Songs on my TV Using Play on Roku?," Roku website (https://support.roku.com/en-ca/article/208755108-what-is-play-on-roku).		MV3_ROKU0006068-MV3_ROKU0006070		
PTX-072	x		Roku's Objections and Responses to MV3's First Set of Interrogatories (Nos. 1-10)	9/10/2019	N/A		801/802
PTX-073	x		Roku's Objections and Responses to MV3's First Set of Requests for Production (Nos. 1-39)	9/10/2019	N/A		801/802
PTX-074	x		Roku's Objections and Supplemental Responses to MV3's First Set of Interrogatories (Nos. 1-10)	11/4/2019	N/A		801/802
PTX-075	x		Appendix A to Roku's Objections and Supplemental Responses to MV3's First Set of Interrogatories (Nos. 1-10)	11/4/2019	N/A		801/802
PTX-076	x		Roku's Objections and Responses to MV3's First Set of Requests for Admission (Nos. 1-24)	12/26/2019	N/A		801/802
PTX-077	x		Roku's Objections and Responses to MV3's Second Set of Interrogatories (Nos. 11-24)	12/26/2019	N/A		801/802
PTX-078	x		Roku's Objections and Responses to MV3's Second Set of Requests for Production (Nos. 40-59)	12/26/2019	N/A		801/802
PTX-079	x		Roku's Objections and Second Supplemental Responses to MV3's First Set of Interrogatories (Nos. 1-10)	1/3/2020	N/A		801/802
PTX-080	x		Roku's Objections and Supplemental Responses to MV3's Second Set of Interrogatories (Nos. 11-24)	1/22/2020	N/A		801/802
PTX-081	x		Complaint for Patent Infringement (D.I. 1)	10/16/2018	N/A		801/802
PTX-082	x		Amended Complaint for Patent Infringement (D.I. 5)	10/17/2018	N/A		801/802
PTX-083	x		Roku, Inc.'s Answer and Counterclaims (D.I. 39)	1/22/2019	N/A		801/802
PTX-084	x		Claim Construction Order (D.I. 90)	10/2/2019	N/A		
PTX-085	x		Opening Expert Report of Dan Schonfeld, Ph.D.	1/15/2020	N/A		801/802
PTX-086	x		Curriculum Vitae of Dan Schonfeld - Exhibit B to the Opening Expert Report of Dan Schonfeld, Ph.D. served January 15, 2020		N/A		

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PTX-087	x		Roku Streaming Media Devices and Roku TV Infringement Analysis - Exhibit C to the Opening Expert Report of Dan Schonfeld, Ph.D. served January 15, 2020		N/A		801/802
PTX-088	x		Expert Report of Roy Weinstein	1/15/2020	N/A		801/802
PTX-089	x		Curriculum Vitae of Roy Weinstein - Exhibit 1 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		
PTX-090	x		Consolidated Statement of Income for Roku, Inc. 2015-2019 - Exhibit 3 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-091	x		The <i>Georgia-Pacific</i> Factors - Exhibit 4 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-092	x		Summary of Roku, Inc. Agreements - Exhibit 5 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-093	x		Roku Key Performance Metrics January 2015-September 2019 - Exhibit 6 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-094	x		Roku Unique Accounts Usage of Mirrorcast and Play on Roku January 1, 2014–October 28, 2019 - Exhibit 7 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-095	x		Accused Roku Players Unit Sales, Revenue, and Profit March 1, 2014–September 30, 2019 - Exhibit 8 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-096	x		Accused Roku Smart TVs Licensed Units and Revenue January 2014–September 2019 - Exhibit 9 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-097	x		Estimated Sales for Accused Roku Devices Roku Players and Roku Smart TVs October 14, 2014–October 9, 2029 - Exhibit 10 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-098	x		Running Royalties through Trial Survey Approach October 14, 2014–June 1, 2020 - Exhibit 11 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-099	x		Discounted Lump-Sum Payment through Patent Expiration Survey Approach October 14, 2014–October 9, 2029 - Exhibit 12 to the Expert Report of Roy Weinstein served January 15, 2020		N/A		801/802
PTX-100	x		Expert Report of M. Laurentius Marais and William E. Wecker	1/15/2020	N/A		401/402; 403; 801/802

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PTX-101	x		Curriculum Vitae of M. Laurentius Marais - Attachment A to the Expert Report of M. Laurentius Marais and William E. Wecker served January 15, 2020		N/A		401/402
PTX-102	x		Deposition and Trial Testimony of M. Laurentius Marais - Attachment B to the Expert Report of M. Laurentius Marais and William E. Wecker served January 15, 2020		N/A		401/402
PTX-103	x		Roku Purchasers Survey Responses and Population Estimates - Attachment F to the Expert Report of M. Laurentius Marais and William E. Wecker served January 15, 2020		N/A		401/402; 403; 801/802
PTX-104	x		Roku Purchasers Survey Questionnaire - Attachment G to the Expert Report of M. Laurentius Marais and William E. Wecker served January 15, 2020		N/A		401/402; 403; 801/802
PTX-105	x		Roku Purchasers Survey Screenshots - Attachment H to the Expert Report of M. Laurentius Marais and William E. Wecker served January 15, 2020		N/A		401/402; 403; 801/802
PTX-106	x		Sample Estimates of Demographic Statistics for Internet Survey Compared to Benchmark Census Estimates - Attachment I to the Expert Report of M. Laurentius Marais and William E. Wecker served January 15, 2020		N/A		401/402; 403; 801/802
PTX-107	x		Rebuttal Expert Report of Dr. Dan Schonfeld in Response to the Invalidity Expert Report of Dr. Samuel Russ and in Response to the Expert Report of Dr. Alan C. Bovik	2/12/2020	N/A		801/802
PTX-108	x		Nathan Eddy, "Roku HDMI Streaming Stick Offers Access to Netflix, YouTube," eWeek (March 5, 2014), available at https://www.eweek.com/small-business/roku-hdmi-streaming-stick-offers-access-to-netflix-youtube (accessed January 9, 2020) - Exhibit B to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	3/5/2014	MV3_ROKU0009818-MV3_ROKU0009821		401/402; 801/802; 901
PTX-109	x		Lloyd Klarke, "Introducing Roku Screen Mirroring Beta for Microsoft Windows and Android Devices," Roku Blog (October 2, 2014), available at https://blog.roku.com/en-ca/introducing-roku-screen-mirroring-beta-for-microsoft-windows-and-android-devices (accessed January 9, 2020) - Exhibit C to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	10/2/2014	MV3_ROKU0008749-MV3_ROKU0008761		403; 801/802
PTX-110	x		Press Release, "10% of U.S. Broadband Households have Purchased a Streaming Media Device to Date in 2014," Park Associates (December 2, 2014), available at https://www.parksassociates.com/blog/article/ces-summit2015-pr3 (accessed December 4, 2019) - Exhibit D to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	12/2/2014	MV3_ROKU0008547-MV3_ROKU0008548		401/402; 801/802; 901

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EXHIBIT NO.	EXPECT TO OFFER	MAY OFFER	EXHIBIT DESCRIPTION	EXHIBIT DATE	BATES RANGE	MV3's OBJECTIONS	ROKU's OBJECTIONS
PTX-111	x		Press Release, "Roku Still Leads Streaming Media Player Sales, Amazon Moves to Second Place," Park Associates (May 17, 2016), available at www.parksassociates.com/blog/article/pr-05172016 (accessed December 4, 2019) - Exhibit E to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	5/17/2016	MV3_ROKU0009846-MV3_ROKU0009847		401/402; 801/802; 901
PTX-112	x		"Roku, Inc. (ROKU) Q2 2019 Earnings Call Transcript," Motley Fool Transcribing (August 7, 2019) available at https://www.fool.com/earnings/call-transcripts/2019/08/07/roku-inc-roku-q2-2019-earnings-calltranscript.aspx (accessed December 10, 2019) - Exhibit F to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	8/7/2019	MV3_ROKU0009848-MV3_ROKU0009872		401/402; 801/802; 901
PTX-113	x		Press Release, "More than 25% of U.S. Households Will Have a Streaming Media Player by 2015," Park Associates (July 9, 2014), available at www.parksassociates.com/blog/article/pr-july2014-streaming-media (accessed December 4, 2019) - Exhibit G to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	7/9/2014	MV3_ROKU0008876-MV3_ROKU0008877		401/402; 801/802; 901
PTX-114	x		"Roku Celebrates Double Win at TV Connect Awards," Roku News (March 20, 2014), available at https://newsroom.roku.com/news/2014/03/roku-celebrates-double-win-tv-connect-awards/qaeelpys-1564179703 (accessed February 10, 2020) - Exhibit H to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	3/20/2014	N/A		
PTX-115	x		Chas Smith, "Insignia Roku TV Wins Tom's Guide 'Best Tech Values' 2017 Award," Roku, (November 1, 2017), available at https://blog.roku.com/insignia-roku-tv-wins-toms-guide-best-tech-values-2017-award (accessed February 12, 2020) - Exhibit I to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	11/1/2017	N/A		401/402; 801/802
PTX-116	x		Louis Ramirez, "10 Best Bargains in Tech 2018," Tom's Guide (November 1, 2018), available at https://www.tomsguide.com/us/best-tech-value-awards,review-4777.html (accessed February 12, 2020) - Exhibit J to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	11/01/2018	N/A		401/402; 801/802; 901
PTX-117	x		Jess Barnes, "TCL's 6-Series Roku TV Wins CES Future Tech Award," Cord Cutters News (January 29, 2020), available at https://www.cordcuttersnews.com/tcls-6-series-roku-tv-wins-ces-future-tech-award/ (accessed February 12, 2020) - Exhibit K to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	1/29/2020	N/A		401/402; 801/802; 901

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EXHIBIT NO.	EXPECT TO OFFER	MAY OFFER	EXHIBIT DESCRIPTION	EXHIBIT DATE	BATES RANGE	MV3's OBJECTIONS	ROKU's OBJECTIONS
PTX-118	x		Janko Roettgers, "Roku Grows U.S. Smart TV Market Share to 13%, Introduces New Models at CES," Variety (January 3, 2017), available at https://variety.com/2017/digital/news/roku-smart-tv-market-share-1201951095/ - Exhibit L to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	1/3/2017	MV3_ROKU0009815-MV3_ROKU0009817		401/402; 801/802; 901
PTX-119	x		Quentyn Kennemer, "Here's how to Mirror your Smartphone or Tablet onto your TV," Digital Trends, (January 3, 2020), available at https://www.digitaltrends.com/home-theater/how-to-mirror-a-phone-on-your-tv/ (accessed February 12, 2020) - Exhibit O to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	1/3/2020	N/A		401/402; 801/802; 901
PTX-120	x		William S. Black <i>et al.</i> , "Adaptive Systems: History, Techniques, Problems, and Perspectives," Systems 2: 606-660 (2014) - Exhibit P to the Rebuttal Expert Report of Dan Schonfeld served February 12, 2020	2014	N/A		401/402; 801/802; 901
PTX-121	x		Expert Report of James T. Carmichael	2/12/2020	N/A		401/402; 801/802; 901
PTX-122	x		Curriculum Vitae of James Thomas Carmichael - Exhibit 1 to the Expert Report of James T. Carmichael served February 12, 2020		N/A		
PTX-123	x		Supplemental Expert Report of Roy Weinstein	2/26/2020	N/A		801/802
PTX-124	x		U.S. Accused Roku Players Unit Sales, Revenue, and Profit March 1, 2014–September 30, 2019 - Exhibit 8 to the Supplemental Expert Report of Roy Weinstein served February 26, 2020		N/A		801/802
PTX-125	x		Estimated Sales for U.S. Accused Roku Devices Roku Players and Roku Smart TVs October 14, 2014–October 9, 2029 - Exhibit 10 to the Supplemental Expert Report of Roy Weinstein served February 26, 2020		N/A		801/802
PTX-126	x		Running Royalties through Trial Survey Approach October 14, 2014–June 1, 2020 - Exhibit 11 to the Supplemental Expert Report of Roy Weinstein served February 26, 2020		N/A		801/802
PTX-127	x		Discounted Lump-Sum Payment through Patent Expiration Survey Approach October 14, 2014–October 9, 2029 - Exhibit 12 to the Supplemental Expert Report of Roy Weinstein served February 26, 2020		N/A		801/802
PTX-128	x		Calculation of Royalty Rate Survey Approach - Exhibit 13 to the Supplemental Expert Report of Roy Weinstein served February 26, 2020		N/A		801/802

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PTX-129	x		Biography of Jared E. Abbruzzese, Sr.		MV3_ROKU0000853-MV3_ROKU0000854		
PTX-130	x		“Inside the radio wave spectrum,” available at https://images.theconversation.com/files/20642/original/pvgrynkw-1361853572.jpg?ixlib=rb-1.1.0&q=45&auto=format&w=1000&fit=clip (accessed April 1, 2020)		N/A		401/402; 801/802; 901
PTX-131	x		2010 Limited Liability Company Annual Report for MV3 Partners LLC	3/30/2010	MV3_ROKU0000910		401/402
PTX-132	x		2011 Limited Liability Company Annual Report for MV3 Partners LLC	2/2/2011	MV3_ROKU0000911		401/402
PTX-133	x		2012 Limited Liability Company Annual Report for MV3 Partners LLC	3/29/2012	MV3_ROKU0000912		401/402
PTX-134	x		2013 Florida Limited Liability Company Annual Report for MV3 Partners LLC	4/16/2013	MV3_ROKU0000913		401/402
PTX-135	x		2014 Florida Limited Liability Company Annual Report MV3 Partners LLC	2/7/2014	MV3_ROKU0000914		401/402
PTX-136	x		2015 Florida Limited Liability Company Annual Report MV3 Partners LLC	4/20/2015	MV3_ROKU0000915		401/402
PTX-137	x		2016 Florida Limited Liability Company Annual Report MV3 Partners LLC	4/27/2016	MV3_ROKU0000916		401/402
PTX-138	x		2017 Florida Limited Liability Company Annual Report MV3 Partners LLC	4/12/2017	MV3_ROKU0000917		401/402
PTX-139	x		2018 Florida Limited Liability Company Annual Report MV3 Partners LLC	8/27/2018	MV3_ROKU0000918		401/402
PTX-140	x		2019 Florida Limited Liability Company Annual Report MV3 Partners LLC	4/30/2019	MV3_ROKU0000919		401/402
PTX-141	x		Spreadsheet of Revenue for sales of standalone remotes for Q4 2012–Q3 2019		ROKU0026773 [produced as native]		
PTX-142	x		Spreadsheet of Revenue from TV Partners for Q3 2014–Q3 2019		ROKU0026774 [produced as native]		
PTX-143	x		Roku TV License and Distribution Agreement between Roku, Inc. and Best Buy China Ltd. (Bermuda)	6/18/2014	ROKU00011394-ROKU00011483		
PTX-144	x		Fifth Amendment to Roku TV License and Distribution Agreement between Roku, Inc. and Best Buy China, Ltd. (Bermuda)	12/12/2017	ROKU00011342-ROKU00011358		
PTX-145	x		AAC Patent License Agreement between Roku, Inc. (Licensee) and Via Licensing Corporation (License Administrator) (executed)	12/22/2011	ROKU00026142-ROKU00026176		
PTX-146	x		Settlement and License Agreement between Lochner Technologies, LLC and Roku, Inc.	12/22/2011	ROKU00026177-ROKU00026185		
PTX-147	x		License Agreement between Audio MPEG, Inc., Societa' Italiana Per Lo Sviluppo Dell'Elettronica, S.I.SV.EL., S.P.A. and Roku, Inc.	10/1/2009	ROKU00026186-ROKU00026227		

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PTX-148	x		HEVC Patent Portfolio License between MPEG LA, LLC and Roku, Inc.	7/30/2015	ROKU00026228-ROKU00026254		
PTX-149	x		Microsoft PlayReady Final Product License (Non-Standard) between Microsoft Corporation and Roku, Inc.	7/1/2016	ROKU00026255-ROKU00026269		
PTX-150	x		Ittiam Systems Inc. - Roku, Inc. Software Licensing Agreement (Proprietary & Confidential) between Ittiam Systems Incorporated and Roku, Inc.	9/26/2016	ROKU00026270-ROKU00026286		
PTX-151	x		Nokia H.264/AVC Patent License Agreement Terms and Conditions and Agreement between Nokia Technologies OY and Roku, Inc.	4/1/2016	ROKU00026287-ROKU00026297		
PTX-152	x		Agreement between Sockeye Licensing TX LLC, Wildcat Licensing LLC, Jeffrey W. Salmon, and Roku, Inc.	3/2/2016	ROKU00026298-ROKU00026307		
PTX-153	x		Patent License Agreement mp3 Codec between Roku, Inc. (Licensee) and Thomson Licensing	10/01/2008	ROKU00026308-ROKU00026322		
PTX-154	x		Unified Patents Enterprise Member Agreement between Unified Patents Inc. and Roku, Inc.	8/19/2015	ROKU00026323-ROKU00026338		
PTX-155	x		Play on Roku 6/4/12 - 10/28/2019 and Miracast 6/10/14 - 10/28/2019 quarterly reports		ROKU0027190-ROKU0027191		
PTX-156	x		Patent License Agreement between Roku, Inc. and Nagravision SA	9/15/2017	ROKU0027192-ROKU0027209		
PTX-157	x		Patent Assignment Agreement between Roku, Inc. and OpenTV, Inc.	12/12/2017	ROKU0027210-ROKU0027222		
PTX-158	x		Patent License Agreement between Rovi Corporation, TiVo Solutions Inc. and Roku, Inc. including Schedules 1-3 and Exhibit A to Tivo Rovi and Roku Patent License Agreement	3/30/2017	ROKU0027223-ROKU0027262		
PTX-159	x		AAC Patent License Agreement Renewal Agreement between Roku, Inc. and Via Licensing Corporation	12/22/2016	ROKU0027311-ROKU0027355		
PTX-160	x		Roku, Inc.'s Form 10-K for the year ended December 31, 2018		ROKU00003701-ROKU00003858		
PTX-161	x		Nonexclusive License Agreement between Intertrust Technologies Corporation and Roku, Inc.	11/7/2019	ROKU0027181-ROKU0027189		
PTX-162	x		Roku, Inc.'s Form 8K Ex. 99.1 - August 7, 2019 Q2 2019 Shareholder Letter	8/07/2019	ROKU00011096-ROKU00011108		

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PTX-163	x		Spreadsheet - Q4 2012–Q4 2018 Player Units, Player Revenue, Player Cost, Player Margin; FY 2013-2018 with Total amount, amount per unit, billing units, return units, net revenue, costs, gross profit		ROKU00011333 [produced as native]		
PTX-164	x		Spreadsheet of active accounts FY 2014 through Q3 2019		ROKU0026760 [produced as native]		
PTX-165	x		Spreadsheet of Roku, Inc. Advertising and Content Distribution Revenue Q1 FY 2013 - Q3 FY 2019		ROKU0026771 [produced as native]		
PTX-166	x		Spreadsheet of Player Units, Revenue, Cost, and Margin for Q12 through Q3 2019, including MSRP as of Nov. 2019 and including sheets for FY2012-FY2018		ROKU0026772 [produced as native]		
PTX-167	x		Roku Support, “Before you buy,” Roku, available at https://support.roku.com/category/200889488-what-to-know-before-you-buy		N/A		
PTX-168	x		Roku Support, “How do I use screen mirroring with my Android or Windows device,” Roku, available at https://support.roku.com/article/208754928-how-do-i-use-screen-mirroring-with-my-android-or-windows-device-		N/A		
PTX-169	x		Roku’s Organizational Chart		ROKU00007883- ROKU00008019		
PTX-170	x		“Six tips to get the most from your Roku player or Roku TV,” available at https://blog.roku.com/six-tips-to-get-the-most-from-your-roku-player-or-roku-tv (last accessed February 25, 2020)				403; 801/802
PTX-171	x		“The best Roku features according to our customers!,” available at https://blog.roku.com/best-roku-features-according-to-our-customers (last accessed February 25, 2020)				403; 801/802
PTX-172	x		Roku Reno Reference Design Critical Component List	10/22/2019	ROKU0026342 [produced as native]		
PTX-173	x		Presentation titled, “Camden Product Overview,” by Derek Cha	9/22/2016	ROKU0026343- ROKU0026352		
PTX-174	x		Presentation titled, “Hardware”		ROKU0026353- ROKU0026374		
PTX-175	x		Roku-Longview (UHD) Block Diagram spreadsheet	2/15/2017	ROKU0026375 [produced as native]		
PTX-176	x		Presentation titled, “2017 North American TV Line-Up,” TCL	October 2016	ROKU0026376- ROKU0026382		

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PTX-177	x		Longview 4K Roku TV Product Requirements Documents (PRD), prepared by Dave Sharp <i>et al.</i>	1/26/2017	ROKU0026383-ROKU0026393		
PTX-178	x		Longview WIFI - Realtek 8812AU WIFI Module for Longview Product Requirements Document "Lite"	7/6/2016	ROKU0026394-ROKU0026399		
PTX-179	x		Presentation titled, "Roku Malone 4K Low-cost 2-Layer Hardware," by Ken Krakow & Tim Wegesin	4/24/2018	ROKU0026400-ROKU0026463		
PTX-180	x		Reno Main Board Block Diagram spreadsheet	10/21/2019	ROKU0026464 [produced as native]		
PTX-181	x		Main Board Block Diagram spreadsheet	5/31/2019	ROKU0026465 [produced as native]		
PTX-182	x		Presentation titled, "Roku Reno 4K High 2-Layer Hardware," by Ken Krakow	4/22/2018	ROKU0026466-ROKU0026531		
PTX-183	x		Roku DFWR 2x2 Wi-Fi Module Product Specification		ROKU0026532-ROKU0026537		
PTX-184	x		Hardware spreadsheet		ROKU0026538_sheet 1		
PTX-185	x		Roku-FortWorth Top Level spreadsheet	5/17/2016	ROKU0026538_sheet 2		
PTX-186	x		Midland (FHD) Block Diagram	10/22/2019	ROKU0026539_sheet 1_VOL011		
PTX-187	x		Midland (FHD) Block Diagram	10/22/2019	ROKU0026539_sheet 2_VOL011		
PTX-188	x		Midland (FHD) Block Diagram	10/22/2019	ROKU0026539_sheet 3_VOL011		
PTX-189	x		Midland (FHD) Block Diagram	10/22/2019	ROKU0026539_sheet 4_VOL011		
PTX-190	x		Midland System Diagram		ROKU0026540-ROKU0026561		
PTX-191	x		Silicon Image Update by Lance Davies	April 2014	ROKU0026562-ROKU0026615		
PTX-192	x		Roku Liberty Reference schematic		ROKU0026616-ROKU0026635		

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PTX-193	x		Roku Longview Block Diagram		ROKU0026636-ROKU0026667		
PTX-194	x		Roku Reno Block Diagram		ROKU0026668-ROKU0026693		
PTX-195	x		FortWorth Top Level schematic		ROKU0026694-ROKU0026733		
PTX-196	x		Roku Malone Block Diagram		ROKU0026734-ROKU0026759		
PTX-197	x		Presentation titled, "Roku Realtek 8811 Low Cost WiFi for Midland Project Plan"		ROKU00006261-ROKU00006269		
PTX-198	x		Draft Roku Feature Guide Template V1.1: Longview Networking		ROKU00006759-ROKU00006760		
PTX-199	x		Roku Longview Reference Design Critical Component List	4/11/2017	ROKU0026339		
PTX-200	x		Roku Approved Vendor List	12/20/2018	ROKU0026340		
PTX-201	x		Roku Approved Vendor List	10/08/2019	ROKU0026341 [produced as native]		
PTX-202	x		M. Laurentius Marais bio, available at https://www.wecker.com/who-we-are/m-laurentius-marais/				401/402; 801/802
PTX-203	x		Operating Agreement of MV3 Partners LLC	10/15/2018	MV3_ROKU0000860-MV3_ROKU0000901		
PTX-204	x		Curriculum Vitae of David Marshack		MV3_ROKU0000902-MV3_ROKU0000909		
PTX-205	x		Email from David Marshack to Jerry Abbruzzese attaching Patent Overview	8/29/2008	MV3_ROKU0000857-MV3_ROKU0000859		
PTX-206	x		Electronic Articles of Organization for MV3 Partners LLC	10/14/2009	MV3_ROKU0000855-MV3_ROKU0000856		
PTX-207	x		Plaintiff MV3 Partners LLC's Notice of Deposition of Roku, Inc. Pursuant to Federal Rule of Civil Procedure 30(b)(6)	7/31/2019	N/A		
PTX-208	x		Tanner DeBoard, "2/16/[2019]," Customer Support - Roku CONFLUENCE	2/16/2019	ROKU00006229-ROKU00006237		

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PTX-209	x		Manufacturer BOM Report - TLA, Amarillo-4K, US (3810R), with Alice-2		ROKU00006238 [produced as native]		
PTX-210	x		Manufacturer BOM Report - TLA, Bryan, US (4660R)		ROKU00006239 [produced as native]		
PTX-211	x		Anh Vu, "CS Miracast Tasks/Issue," Networking - Roku CONFLUENCE	4/27/2018	ROKU00006240- ROKU00006242		
PTX-212	x		Gary Ellison, "ECP Remote Access and Authorization Enhancements," Roku CONFLUENCE	6/15/2018	ROKU00006244- ROKU00006246		401/402; 403
PTX-213	x		Narasimha Chari, "Fargo credential transfer messaging," Roku CONFLUENCE	9/19/2017	ROKU00006252- ROKU00006253		
PTX-214	x		Erwan Suteau, "Miracast - Who is casting?," Networking - Roku CONFLUENCE	2/22/2018	ROKU00006275- ROKU00006276		
PTX-215	x		Kevin Gong, "Miracast logids," Dashboard / Data Engineering and Advertising Home / Player Logid Documentation - Roku CONFLUENCE	7/14/2017	ROKU00006290		
PTX-216	x		Ports Open on Roku DVP - Networking - Roku CONFLUENCE		ROKU00006339- ROKU00006342		
PTX-217	x		Presentation titled, "Streaming device competition"		ROKU00006400- ROKU00006403		
PTX-218	x		Presentation titled, "Houston Program"	9/9/2019	ROKU00006708- ROKU00006744		
PTX-219	x		Patrick Ellis & Tito Thomas, "Roku Feature Guide: Miracast"	5/28/2014	ROKU00006761- ROKU00006763		
PTX-220	x		Presentation titled, "Roku Streaming Device Leadership Study 2015 Update" by The NPD Group, Inc.	July 2015	ROKU00006779- ROKU00006845		403
PTX-221	x		Top 5 FAQs by usage (9/28 – 10/18)		ROKU00006864- ROKU00006902		
PTX-222	x		Draft Roku TV User Guide		ROKU00006903- ROKU00006974		
PTX-223	x		Product Requirements Document (PRD)	6/23/2017	ROKU00007039- ROKU00007043		

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PTX-224	x		Changchang Liu, "1 - Roku 101 – Discover," , Roku CONFLUENCE	3/19/2019	ROKU00008053-ROKU00008057		
PTX-225	x		Fort Worth BBY Verification TPV Final Build Testing	10/7/2018	ROKU00008387-ROKU00008388		
PTX-226	x		Presentation titled, "Roku OS Architecture Overview"	N/A	ROKU00004349-ROKU00004355		
PTX-227	x		Schematic for Amarillo 4K SoC board PVT	8/8/2017	ROKU00005295-ROKU00005303		
PTX-228	x		Presentation titled, "Roku Board Meeting"	5/16/2017	ROKU00006036-ROKU00006130		
PTX-229	x		Longview Alpha/Beta Daily Summary Dashboard	3/29/2018	ROKU00006223-ROKU00006228		
PTX-230	x		Document titled, "U.S. Data Quality Questionnaire"				401/402; 403; 801/802
PTX-231	x		Document titled, "U.S. Demographic Questionnaire"				401/402; 403; 801/802
PTX-232	x		Document titled, "Introducing Phone TV"		ROKU00005431-ROKU00005434		
PTX-233	x		Presentation titled, "US Streaming Leadership Study Q1 2019"	May 2019	ROKU00014172-ROKU00014208		403
PTX-234	x		App Store Preview, "Roku on the App Store," Apple, available at https://apps.apple.com/us/app/roku/id482066631 (accessed October 21, 2019)		MV3_ROKU0003386-MV3_ROKU0003388		401/402; 801/802; 901
PTX-235	x		Matthew Wee, "3 cool things you can do with the Roku mobile app," Roku Blog, available at https://blog.roku.com/3-cool-things-you-can-do-with-the-roku-mobile-app (accessed October 21, 2019)	2/25/2017	MV3_ROKU0003354-MV3_ROKU0003362		403; 801/802
PTX-236	x		Melissa Morell, "Six tips to get the most from your Roku player or Roku TV," Roku Blog, available at https://blog.roku.com/six-tips-to-get-the-most-from-your-roku-player-or-roku-tv (accessed October 21, 2019)	11/25/2014	MV3_ROKU0003399-MV3_ROKU0003411		403 (duplicative with PTX-170 and 336); 801/802

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PTX-237	x		Lloyd Klarke, "Introducing Roku Screen Mirroring Beta for Microsoft Windows and Android Devices," Roku Blog, available at https://blog.roku.com/introducing-roku-screen-mirroring-beta-for-microsoft-windows-and-android-devices (accessed October 21, 2019)	10/2/2014	MV3_ROKU0003373-MV3_ROKU0003382		403 (duplicative with PTX-109); 801/802
PTX-238	x		Bill Wilson, "The best Roku features according to our customers!," Roku Blog, available at https://blog.roku.com/best-roku-features-according-to-our-customers (accessed October 21, 2019)	9/23/2016	MV3_ROKU0003412-MV3_ROKU0003415		403 (duplicative with PTX-171); 801/802
PTX-239	x		Roku, Inc.'s Form 10-K for the year ended December 31, 2017		ROKU00003553-ROKU00003700		
PTX-240	x		Presentation titled, "Streaming Leadership Study Q1 2016"	April 2016	ROKU00013467-ROKU00013547		403
PTX-241	x		Presentation titled, "Streaming Leadership Study Q1 2016"	April 2016	ROKU00013582-ROKU00013626		403
PTX-242	x		Presentation titled, "Streaming Leadership Study Pre-Holiday 2016"	December 2016	ROKU00013627-ROKU00013669		403
PTX-243	x		Presentation titled, "Streaming Leadership Study Q1 2017"	March 2017	ROKU00013726-ROKU00013764		403
PTX-244	x		Erwan Suteau, –"Miracast - Who is casting?"	2/22/2018	ROKU00013008-ROKU00013009		
PTX-245	x		Presentation titled, "Streaming Leadership Study Q2 2017"	July 2017	ROKU00013765-ROKU00013797		403
PTX-246	x		Presentation titled, "Streaming Leadership Study Q4 2017"	December 2017	ROKU00013670-ROKU00013725		403
PTX-247	x		Presentation titled, "Streaming Leadership Study Q1 2018"	March 2018	ROKU00013799-ROKU00013850		403
PTX-248	x		Presentation titled, "Streaming Leadership Survey 2018"	September 2018	ROKU00013851-ROKU00013906		403
PTX-249	x		Presentation titled, "Streaming Leadership Study Q4 2018"	January 2019	ROKU00013907-ROKU00013984		403
PTX-250	x		Presentation titled, "US Streaming Leadership Study Q1 2019"	June 2019	ROKU00014040-ROKU00014096		403

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PTX-251	x		Presentation titled, "US Streaming Leadership Study Q1 2019"	June 2019	ROKU00014097-ROKU00014171		403
PTX-252	x		Presentation titled, "Miracast Product Requirements," by T. Markworth, Product Management (Version 0.32)	4/9/2013	ROKU00013133-ROKU00013165		
PTX-253	x		Presentation titled, "Project Sugarland"		ROKU00013223-ROKU00013242		
PTX-254	x		Dallas FAQ		ROKU00013392-ROKU00013399		
PTX-255	x		Roku 3 Packaging, USA, Target, Top, Round 1	7/17/2014	ROKU00009563		
PTX-256	x		Roku Streaming Stick Packaging, USA, Target, Sleeve, Round 1	7/17/2014	ROKU00009581		
PTX-257	x		Google Play, "Roku – Apps on Google Play," Google, available at https://play.google.com/store/apps/details?id=com.roku.remote&hl=en (accessed October 21, 2019)		MV3_ROKU0003383-MV3_ROKU0003385		401/402; 801/802; 901
PTX-258	x		Patrick Ellis, "Roku Feature Guide: Miracast for Liberty"	3/27/2015	ROKU00013122		
PTX-259	x		Patrick Ellis & Tito Thomas, "Roku Feature Guide: Miracast"	5/28/2014	ROKU00013124-ROKU00013126		
PTX-260	x		Wi-Fi Alliance, "Wi-Fi Certified Miracast: Extending the Wi-Fi experience to seamless video display"	January 2013	ROKU00013127-ROKU00013132		
PTX-261	x		Presentation titled, "Miracast Product Requirements," by T. Markworth, Product Management (Version 0.32)	June 2013	ROKU00013166-ROKU00013198		
PTX-262	x		Microsoft, "Guidelines for Miracast Adapter"		ROKU00013204-ROKU00013219		
PTX-263	x		Derek Cha & Joseph Mathew, "Roku Feature Guide: Screen Mirroring (Miracast) Security"	5/30/2017	ROKU00013220-ROKU00013222		
PTX-264	x		Roku Wiki, "Mobile Roadmap"		ROKU00013250-ROKU00013252		
PTX-265	x		Presentation titled, "Mobile 2.2 Review"	2/26/2013	ROKU00013253-ROKU00013260		
PTX-266	x		Matt Wee, "Roku Feature Guide: Play on Roku - Party Mode"	1/15/2016	ROKU00013261-ROKU00013263		

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PTX-267	x		Presentation titled, "Play on Roku Video Requirements," by Tom Markworth, Product Management (Version 1.0)	6/5/2013	ROKU00013275-ROKU00013287		
PTX-268	x		Presentation titled, "Implementing Miracast over Infrastructure" by Microsoft Corporation		ROKU00008058-ROKU00008076		
PTX-269	x		RokuWiki, "Miracast Development"		ROKU00013015-ROKU00013023		
PTX-270	x		Patrick Ellis, "Roku Feature Guide: Miracast Phase 2"	5/2/2014	ROKU00013030-ROKU00013031		
PTX-271	x		Kwong Cheuk, "Miracast Security Test Plan," OS Release - Roku CONFLUENCE	5/10/2017	ROKU00013032		
PTX-272	x		Presentation titled, "Menu Tree – Settings"		ROKU00013033-ROKU00013047		
PTX-273	x		Presentation titled, "Project Miracast – Wireframes"		ROKU00013048-ROKU00013084		
PTX-274	x		U.S. Patent Application Publication No. 2010/0169935 A1 to Abbruzzese	7/1/2010	WALTERS0000127-WALTERS0000135		
PTX-275	x		Images of Product Samples		MV3_ROKU_TH0001 - MV3_ROKU_TH00022_08		
PTX-276	x		Roku Smart Soundbar product information, available at https://www.roku.com/products/audio/roku-smart-soundbar (accessed September 23, 2019)		MV3_ROKU0003218-MV3_ROKU0003232		
PTX-277	x		Mike Fu, "Control Roku TV with the Free Roku Mobile App for Android, iOS and Windows Phones," Roku Blog (October 30, 2014)	10/30/2014	MV3_ROKU0003363-MV3_ROKU0003372		401/402; 801/802
PTX-278	x		Janko Roettgers, "Roku Wants to Start Streaming to Third-Party Devices (EXCLUSIVE)," Variety (October 25, 2017)	10/25/2017	MV3_ROKU0003389-MV3_ROKU0003398		401/402; 801/802; 901
PTX-279	x		Mike Fu, "Update to the Roku Mobile App for Windows Phone (v2.0)," Roku Blog (November 18, 2014)	11/18/2014	MV3_ROKU0003416-MV3_ROKU0003422		401/402; 801/802
PTX-280	x		Roku Express+ (2018) product information, available at https://www.roku.com/products/roku-express-plus-2018 (accessed December 31, 2019)		MV3_ROKU0005893-MV3_ROKU0005906		

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PTX-281	x		Roku Developers, DRM & content protection, available at https://developer.roku.com/docs/specs/content-protection.md (accessed January 7, 2020)		MV3_ROKU0006075-MV3_ROKU0006078		
PTX-282	x		Lee J. Bain and Max Engelhardt, INTRODUCTION TO PROBABILITY AND MATHEMATICAL STATISTICS 180-185 (2nd ed. 1992)	1992	MV3_ROKU0007737-MV3_ROKU0007744		401/402; 403; 801/802; 901
PTX-283	x		William G. Cochran, SAMPLING TECHNIQUES (3rd ed. 1977)	1977	MV3_ROKU0007745-MV3_ROKU0008184		401/402; 403; 801/802; 901
PTX-284	x		Peter A. Diamond and Jerry A. Hausman, "Contingent Valuation: Is Some Number Better Than No Number?," Journal of Economic Perspectives 8(4): 45-64 (1994)	1994	MV3_ROKU0008185-MV3_ROKU0008204		401/402; 403; 801/802; 901
PTX-285	x		Shari S. Diamond, "Reference Guide on Survey Research," in Reference Manual on Scientific Evidence, 359-423 (3rd ed. 2011)	2011	MV3_ROKU0008205-MV3_ROKU0008270		401/402; 403; 801/802; 901
PTX-286	x		James J. Murphy <i>et al.</i> , "A Meta-Analysis of Hypothetical Bias in Stated Preference Valuation," Environmental and Resource Economics 30: 313-25 (2005)	2005	MV3_ROKU0008422-MV3_ROKU0008434		401/402; 403; 801/802; 901
PTX-287	x		Engine Group, "Our Story," available at https://enginegroup.com/us/about/		MV3_ROKU0008271-MV3_ROKU0008280		401/402; 403; 801/802; 901
PTX-288	x		Peter Grösche and Carsten Schröder, "Eliciting Public Support for Greening the Electricity Mix Using Random Parameter Techniques," Energy Economics 33(2): 363-70 (March 2011)	March 2011	MV3_ROKU0008281-MV3_ROKU0008315		401/402; 403; 801/802; 901

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PTX-289	x		D.V. Hinkley, "On the ratio of two correlated normal random variables," <i>Biometrika</i> 56(3): 635-39 (1969)	1969	MV3_ROKU0008316-MV3_ROKU0008320		401/402; 403; 801/802; 901
PTX-290	x		Lena W. Hiselius, "Preferences regarding road transports of hazardous materials using choice experiments—any sign of biases?," Lund University Department of Economics (2005)	2005	MV3_ROKU0008321-MV3_ROKU0008352		401/402; 403; 801/802; 901
PTX-291	x		Sharon L. Lohr, <i>SAMPLING: DESIGN AND ANALYSIS</i> (2nd ed. 1999)	1999	MV3_ROKU0008353-MV3_ROKU0008366		401/402; 403; 801/802; 901
PTX-292	x		Klaus M. Miller <i>et al.</i> , "How Should Consumers' Willingness to Pay Be Measured? An Empirical Comparison of State-of-the-Art Approaches," <i>Journal of Marketing Research</i> 48(1): 172-84 (February 2011)	February 2011	MV3_ROKU0008367-MV3_ROKU0008411		401/402; 403; 801/802; 901
PTX-293	x		Sukant K. Misra <i>et al.</i> , "Consumer Willingness to Pay for Pesticide-Free Fresh Produce," <i>Western Journal of Agricultural Economics</i> 16(2): 218-27 (December 1991)	December 1991	MV3_ROKU0008412-MV3_ROKU0008421		401/402; 403; 801/802; 901
PTX-294	x		Alan Stuart and J. Keith Ord, <i>KENDALL'S ADVANCED THEORY OF STATISTICS</i> , 323-25 (5th ed. 1987)	1987	MV3_ROKU0008435-MV3_ROKU0008438		401/402; 403; 801/802; 901
PTX-295	x		U.S. Environmental Protection Agency, "Radon in Drinking Water Health Risk Reduction and Cost Analysis." <i>Federal Register</i> Vol. 64, No. 38, (February 26, 1999), available at https://archive.epa.gov/water/archive/web/html/hrrcafr.html	2/26/1999	MV3_ROKU0008439-MV3_ROKU0008544		401/402; 403; 801/802; 901
PTX-296	x		Article titled, "1 in 8 Smart TVs Sold in US Run Roku OS," available at https://advanced-television.com/2017/01/04/1-in-8-smart-tvs-sold-in-us-run-roku-os/ (accessed October 24, 2019)	1/4/2017	MV3_ROKU0008545-MV3_ROKU0008546		401/402; 801/802; 901

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EXHIBIT NO.	EXPECT TO OFFER	MAY OFFER	EXHIBIT DESCRIPTION	EXHIBIT DATE	BATES RANGE	MV3's OBJECTIONS	ROKU's OBJECTIONS
PTX-297	x		Press Release, "39% of US Broadband Households Own a Streaming Media Player," Parks Associates (July 24, 2019), available at https://www.parksassociates.com/blog/article/pr-07242019 (accessed December 4, 2019)	7/24/2019	MV3_ROKU0008549-MV3_ROKU0008550		401/402; 801/802; 901
PTX-298	x		Industry Report, "IT/Telecom Services, OLED, 5G and 8K Becoming Mainstream," KB Research (September 16, 2019)	9/16/2019	MV3_ROKU0008551-MV3_ROKU0008554		401/402; 801/802; 901
PTX-299	x		Roku Blog, "A Look at 2015 at Roku: A Great Year for Streaming," Roku (December 30, 2015), available at https://blog.roku.com/a-look-at-2015-at-roku-a-great-year-for-streaming (accessed December 4, 2019)	12/30/2015	MV3_ROKU0008555-MV3_ROKU0008562		403; 801/802
PTX-300	x		App Store Preview, "Air Mirror for Roku TV on the App Store," Apple, available at https://apps.apple.com/us/app/air-mirror-for-roku-tv/id1369574029 (accessed December 18, 2019)		MV3_ROKU0008563-MV3_ROKU0008565		401/402; 801/802; 901
PTX-301	x		Jim Kreyenhagen, "Why Catering To Mobile Users Is Vital For Company Growth," Forbes (May 21, 2018) available at https://www.forbes.com/sites/forbescommunicationscouncil/2018/05/21/why-catering-to-mobile-users-is-vital-for-company-growth/#52eb6a612677 (accessed January 9, 2020)	5/31/2018	MV3_ROKU0008598-MV3_ROKU0008601		401/402; 801/802; 901
PTX-302	x		Stephen A. Degnan and Corwin Horton, "A Survey of Licensed Royalties," les Nouvelles (June 1997)	June 1997	MV3_ROKU0008624-MV3_ROKU0008629		401/402; 801/802; 901
PTX-303	x		"Historical Prime Rate, 1983 - Present," JPMorgan Chase & Co., available at https://www.jpmorganchase.com/corporate/About-JPMC/historical-prime-rate.htm (accessed January 14, 2020)		MV3_ROKU0008661-MV3_ROKU0008666		401/402; 801/802; 901
PTX-304	x		"History of Cable," California Cable & Telecommunications Association available at https://www.cable.org/learn/history-of-cable/ (accessed January 9, 2020)		MV3_ROKU0008667-MV3_ROKU0008674		401/402; 801/802; 901
PTX-305	x		Roku Support, "How Do I Cast Apps like YouTube or Netflix from my Phone to My TV?," Roku, available at https://support.roku.com/en-ca/article/360002990094-how-do-i-cast-apps-like-youtube-or-netflix-from-my-phone-to-my-tv- (accessed December 19, 2019)		MV3_ROKU0008675-MV3_ROKU0008679		

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PTX-306	x		Carey Dunne, "How the Television has Evolved," Fast Company (July 22, 2014) available at https://www.fastcompany.com/3033336/how-the-television-has-evolved (accessed January 9, 2020)		MV3_ROKU0008680-MV3_ROKU0008683		401/402; 801/802; 901
PTX-307	x		Kim Staples, "How to Connect Your Android to your TV," Broadband Choices (April 20, 2018) available at https://www.broadbandchoices.co.uk/how-to/how-to-connect-android-phone-tablet-to-tv (accessed January 9, 2020)	4/20/2018	MV3_ROKU0008684-MV3_ROKU0008687		401/402; 801/802; 901
PTX-308	x		"Internet Television – An Anniversary," Huffington Post (November 20, 2015), available at https://www.huffpost.com/entry/internet-and-television-o_b_8602316 (accessed January 9, 2020)	11/20/2015	MV3_ROKU0008704-MV3_ROKU0008710		401/402; 801/802; 901
PTX-309	x		"Digital Media: Rise of On-Demand Content," Deloitte, available at https://www2.deloitte.com/content/dam/Deloitte/in/Documents/technology-media-telecommunications/in-tmt-rise-of-on-demand-content.pdf		MV3_ROKU0008711-MV3_ROKU0008748		401/402; 801/802; 901
PTX-310	x		Roku Blog, "Introducing Roku TV," Roku (January 5, 2014), available at https://blog.roku.com/en-ca/introducing-roku-tv (accessed January 9, 2020)	1/5/2014	MV3_ROKU0008762-MV3_ROKU0008775		401/402; 801/802; 901
PTX-311	x		"53c. Land of Television," U.S. History, available at https://www.ushistory.org/us/53c.asp (accessed January 9, 2020)		MV3_ROKU0008776-MV3_ROKU0008780		401/402; 801/802; 901
PTX-312	x		App Store Preview, "Mirror for Roku – AirBeam TV on the App Store," Apple, available at https://apps.apple.com/us/app/mirror-for-roku-airbeamtv/id1249399133 (accessed December 18, 2019)		MV3_ROKU0008871-MV3_ROKU0008873		401/402; 801/802; 901
PTX-313	x		Alex Weprin, "Mobile Video Surges as Content Converges with Tech," Digital News Daily (November 5, 2018), available at https://www.mediapost.com/publications/article/327575/mobile-video-surges-as-content-converges-with-tech.html (accessed January 9, 2020)	11/5/2018	MV3_ROKU0008874-MV3_ROKU0008875		401/402; 801/802; 901 401/402; 801/802; 901
PTX-314	x		Betsy Schiffman, "Move Over Netflix – Roku to Open the Box," Wired (September 24, 2008) available at https://www.wired.com/2008/09/roku-box-will-b/ (accessed January 9, 2020)	9/24/2008	MV3_ROKU0008886-MV3_ROKU0008893		401/402; 801/802
PTX-315	x		Press Release, "Parks Associates: Nearly 40% of U.S. Broadband Households Own a Streaming Media Player," Parks Associates (May 31, 2018)	5/31/2018	MV3_ROKU0008894-MV3_ROKU0008897		401/402; 801/802; 901

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PTX-316	x		Stephen Silver, "Netflix, Roku Launch Set-Top Box," Dealerscope Today (May 20, 2008), available at https://www.dealerscope.com/article/netflix-roku-launch-set-top-box-105783/ (accessed January 9, 2020)	5/20/2008	MV3_ROKU0008898-MV3_ROKU0008903		401/402; 801/802; 901
PTX-317	x		Phil Kurz, "Number of U.S. TV Homes Grows to 120.6 Million, Says Nielsen," TV Technology (August 27, 2019), available at https://www.tvtechnology.com/news/number-of-u-s-tv-homes-grows-to-120-6-million-says-nielsen (accessed January 9, 2020)	8/27/2019	MV3_ROKU0008904-MV3_ROKU0008905		401/402; 801/802; 901
PTX-318	x		Richard Razgaitis, <i>Valuation and Pricing of Technology-Based Intellectual Property</i> (2003)	2003	MV3_ROKU0008941-MV3_ROKU0008944		401/402; 801/802; 901
PTX-319	x		Internet Innovation, "Research Peek of the Week: Smartphone Users in the US Expected to Reach Over 270 Million by 2022," IIA (July 3, 2018), available at https://internetinnovation.org/general/research-peek-of-the-week-smartphone-users-in-the-us-expected-to-reach-over-270-million-by-2020/	7/3/2018	MV3_ROKU0008945-MV3_ROKU0008951		401/402; 801/802; 901
PTX-320	x		App Store Preview, "Rocket – Video Cast for Roku," Apple, available at https://apps.apple.com/us/app/rocket-video-cast-for-roku/id357555848 (accessed December 18, 2019)		MV3_ROKU0009037-MV3_ROKU0009039		401/402; 801/802; 901
PTX-321	x		Roku, Inc.'s Form 10-K for the year ended December 31, 2017		MV3_ROKU0009040-MV3_ROKU0009149		
PTX-322	x		Roku, Inc.'s Form 10-K for the year ended December 31, 2018		MV3_ROKU0009150-MV3_ROKU0009478		
PTX-323	x		Roku, Inc.'s Form 10-Q for the quarterly period ended March 31, 2019		MV3_ROKU0009479-MV3_ROKU0009545		
PTX-324	x		Roku, Inc.'s Form 10-Q for the quarterly period ended June 30, 2019		MV3_ROKU0009546-MV3_ROKU0009706		
PTX-325	x		Roku, Inc.'s Form 10-Q for the quarterly period ended September 30, 2019		MV3_ROKU0009707-MV3_ROKU0009774		
PTX-326	x		Ralph Schackart <i>et al.</i> , "Roku, Inc., Addressing the Bear Thesis: Proprietary Active Account Build, Gross Margin Analysis, and Survey," William Blair Equity Research (August 16, 2018)	8/16/2018	MV3_ROKU0009775-MV3_ROKU0009777		401/402; 801/802; 901

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PTX-327	x		Tim Nollen & Jordan Boretz, "Roku - The next leg of CTV device and ad growth," Macquarie Research (October 9, 2019)	10/9/2019	MV3_ROKU0009778-MV3_ROKU0009795		401/402; 801/802; 901
PTX-328	x		Matthew Miller, "Roku Adds 2 New Players, Including the HD-XR with 802.11n Support," ZDNet (October 27, 2009), available at https://www.zdnet.com/article/roku-adds-2-new-players-including-the-hd-xr-with-802-11n-support/ (accessed January 9, 2020)	10/27/2009	MV3_ROKU0009796-MV3_ROKU0009810		401/402; 801/802; 901
PTX-329	x		"Products – Audio," Roku, available at https://web.archive.org/web/20191119233030/https://www.roku.com/products/audio (accessed January 9, 2020)		MV3_ROKU0009811-MV3_ROKU0009813		
PTX-330	x		Press Release, "Roku Digital Video Player Now Streaming HD Content from Netflix," Roku (December 22, 2008), available at https://www.businesswire.com/news/home/20081221005044/en/Roku-Digital-Video-Player-Streaming-HD-Content	12/22/2008	MV3_ROKU0009814		401/402; 801/802; 901
PTX-331	x		Roku Inc.'s Company Profile, Bloomberg, available at https://www.bloomberg.com/profile/company/ROKU:US (accessed November 7, 2019)		MV3_ROKU0009822-MV3_ROKU0009825		401/402; 801/802; 901
PTX-332	x		Press Release, "Roku Increases Market Share Among Streaming Media Players, Extending Its Lead on Amazon, Google, and Apple," Parks Associates (August 23, 2017) (accessed December 4, 2019)	8/23/2017	MV3_ROKU0009826-MV3_ROKU0009827		401/402; 801/802; 901
PTX-333	x		Press Release, "Roku Introduces Roku TV," Roku (January 6, 2014), available at https://newsroom.roku.com/news/2014/01/roku-introduces-roku-tv/8rfwzsh1-1564179703 (accessed January 9, 2020)	1/6/2014	MV3_ROKU0009828-MV3_ROKU0009832		
PTX-334	x		"Roku Player Accessories," Roku, available at https://web.archive.org/web/20190821003003/https://www.roku.com/products/accessories/player (accessed January 9, 2020)		MV3_ROKU0009833-MV3_ROKU0009845		
PTX-335	x		App Store Preview, "Screen Mirroring+ for Roku," Apple, available at https://apps.apple.com/us/app/screen-mirroring-for-roku/id1295610132 (accessed December 18, 2019)		MV3_ROKU0009873-MV3_ROKU0009875		401/402; 801/802; 901

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PTX-336	x		Melissa Morell, "Six Tips to Get the Most From Your Roku Player or Roku TV," Roku Blog (November 25, 2014), available at https://blog.roku.com/en-ca/six-tips-to-get-the-most-from-your-roku-player-or-roku-tv (accessed January 9, 2020)	11/25/2014	MV3_ROKU0009881-MV3_ROKU0009898		403 (duplicative with PTX-170 and 236); 801/802
PTX-337	x		"Share of Streaming Media Players Installed Base in the United States by Brand/Manufacturer from 2015 to 2019," Statista (2019)	2019	MV3_ROKU0009899		401/402; 801/802; 901
PTX-338	x		Press Release, "TCL Roku TV Offers Easiest Way to Endless Entertainment," TCL (August 19, 2014), available at https://www.tclusa.com/about-us/press-releases/tcl-roku-tv-lineup-announced-2014	8/19/2014	MV3_ROKU0009900-MV3_ROKU0009903		401/402; 801/802; 901
PTX-339	x		Christopher Klein, "The Birth of Satellite TV, 50 Years Ago," History (August 22, 2018), available at https://www.history.com/news/the-birth-of-satellite-tv-50-years-ago (accessed January 9, 2020)	7/23/2012	MV3_ROKU0009904-MV3_ROKU0009906		401/402; 801/802; 901
PTX-340	x		Adam Pothitos, "The History of the Smartphone," Mobile Industry Review (October 31, 2016), available at http://www.mobileindustryreview.com/2016/10/the-history-of-the-smartphone.html (accessed January 9, 2020)	10/31/2016	MV3_ROKU0009907-MV3_ROKU0009914		401/402; 801/802; 901
PTX-341	x		Amy He, "Average US Time Spent with Mobile in 2019 has Increased," eMarketer (June 4, 2019), available at https://www.emarketer.com/content/average-us-time-spent-with-mobile-in-2019-has-increased (accessed January 9, 2020)	6/4/2019	MV3_ROKU0009997-MV3_ROKU0010003		401/402; 801/802; 901
PTX-342	x		Vince Pontorno, "Use Your Android Phone to Cast to Your TV," Komando.com (August 6, 2019) available at https://www.komando.com/tech-tips/screen-mirroring-tips-for-android/582221/ (accessed January 9, 2020)	8/6/2019	MV3_ROKU0010017-MV3_ROKU0010025		401/402; 801/802; 901
PTX-343	x		"Global Mobile Consumer Survey, Overview of Results, US Edition," Deloitte (2018)	2018	MV3_ROKU0010026-MV3_ROKU0010044		401/402; 403; 801/802; 901
PTX-344	x		The Cord Cutter Blog, "What is Over-the-Air Television (OTA TV) and How Can it Help you Save Money," Gomohu (October 13, 2012), available at https://www.gomohu.com/blog/cutting-the-cord/ota-tv-over-the-air/ (accessed January 9, 2020)	10/13/2012	MV3_ROKU0010113-MV3_ROKU0010120		401/402; 801/802; 901

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PTX-345	x		“When Did Video On Demand Start,” MSA Focus (July 4, 2017), available at https://www.msafocus.com/news/video-demand-start/	7/4/2017	MV3_ROKU0010121-MV3_ROKU0010127		401/402; 801/802; 901
PTX-346	x		David Pierce, “Your Smart TV Is Only Going to Get Dumber,” Wall Street Journal (November 25, 2018), available at https://www.wsj.com/articles/your-mart-tv-is-only-going-to-get-dumber-1543154401 (accessed December 6, 2019)	11/25/2018	MV3_ROKU0010128-MV3_ROKU0010130		401/402; 801/802; 901
PTX-347	x		Roku Developer, “Streaming Specifications,” available at https://developer.roku.com/docs/specs/streaming.md#adaptive-streaming-protocols (accessed January 14, 2020)		MV3_ROKU0010131-MV3_ROKU0010139		
PTX-348	x		DE 1 252 731 issued December 31, 1962	1962	MV3_ROKU0010140-MV3_ROKU0010145		401/402; 801/802
PTX-349	x		Netflix, “DIAL Discovery And Launch protocol specification,” Version 2.2	2018	MV3_ROKU0010146-MV3_ROKU0010187		403 (duplicative with PTX-032)
PTX-350	x		“DVB-H Global Mobile TV: Technology,” available at http://www.dvb-h-online.org/technology.htm (accessed January 14, 2020)		MV3_ROKU0010188		401/402; 801/802; 901
PTX-351	x		ETSI EN 302 304 v1.1.1: Digital Video Broadcasting (DVB); Transmission System for Handheld Terminals (DVB-H) ETSI (November 2004)	November 2004	MV3_ROKU0010189-MV3_ROKU0010202		401/402; 801/802; 901
PTX-352	x		UK Patent Application GB 2 059 712 A to Clarke	4/23/1981	MV3_ROKU0010203-MV3_ROKU0010213		401/402; 801/802
PTX-353	x		Roku Developer, “Hardware Specifications,” available at https://developer.roku.com/docs/specs/hardware.md		MV3_ROKU0010214-MV3_ROKU0010222		
PTX-354	x		High-Definition Multimedia Interface Specification Version 1.4 (June 5, 2009)	6/5/2009	MV3_ROKU0010223-MV3_ROKU0010647		401/402; 801/802; 901
PTX-355	x		Roku Support, “How do I set up a 4K Ultra HD or HDR device with my Roku TV™?,” Roku, available at https://support.roku.com/article/115008604867-how-do-i-set-up-a-4k-ultra-hd-or-hdr-device-with-my-roku-tv- (accessed January 14, 2020)		MV3_ROKU0010650-MV3_ROKU0010654		
PTX-356	x		Ryoji Yanase <i>et al.</i> , “Development of Single-Frame Super-Resolution System LSI,” NEC Tech. Journal Vol. 4. No. 1 (2009), available at https://www.nec.com/en/global/techrep/journal/g09/n01/pdf/090104.pdf	January 2009	MV3_ROKU0010656-MV3_ROKU0010659		401/402; 801/802; 901

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PTX-357	x		VP8 Data Format and Decoding Guide (November 2011), available at https://tools.ietf.org/html/rfc6386 (accessed January 14, 2020)	November 2011	MV3_ROKU0010660-MV3_ROKU0010964		401/402; 801/802; 901
PTX-358	x		Samsung Galaxy A20 Specifications, available at https://www.gadgetsnow.com/mobile-phones/Samsung-Galaxy-A20 (accessed January 14, 2020)		MV3_ROKU0010965-MV3_ROKU0010975		401/402; 801/802; 901
PTX-359	x		Roku Developer, "Streaming Specifications," available at https://developer.roku.com/docs/specs/streaming.md (accessed January 14, 2020)		MV3_ROKU0010977-MV3_ROKU0010985		403 (duplicative with PTX-347)
PTX-360	x		TCL 50" Class 4-Series 4K UHD HDR Roku Smart TV product information, available at https://www.tclusa.com/products/home-theater/4-series/tcl-50-class-4-series-4k-uhd-led-roku-smart-tv-50S423 (accessed January 14, 2020)		MV3_ROKU0010986-MV3_ROKU0010994		401/402; 801/802; 901
PTX-361	x		ITU-T Series H: Audiovisual and Multimedia Systems Infrastructure of audiovisual services – Transmission multiplexing and synchronization Information technology – Generic coding of moving pictures and associated audio information: Systems, H.222.0 (October 2014)	October 2004	MV3_ROKU0011089-MV3_ROKU0011332		401/402; 801/802; 901
PTX-362	x		ITU-T Series H: Audiovisual and Multimedia Systems Infrastructure of audiovisual services – Coding of moving video Advanced video coding for generic audiovisual services, H.264 (June 2019)	June 2019	MV3_ROKU0011333-MV3_ROKU0012166		401/402; 801/802; 901
PTX-363	x		ITU-T Series H: Audiovisual and Multimedia Systems Infrastructure of audiovisual services – Coding of moving video High efficiency video coding, H.265 (November 2019)	November 2019	MV3_ROKU0012167-MV3_ROKU0012877		401/402; 801/802; 901
PTX-364	x		M. Kornfeld and U. Reimers, "DVB-H – the emerging standard for mobile data communication," EBU Technical Review (January 2005)	January 2005	MV3_ROKU0012878-MV3_ROKU0012887		401/402; 801/802; 901
PTX-365	x		U.S. Patent No. 2,813,148 to Pensak	11/12/1957	MV3_ROKU0012888-MV3_ROKU0012896		401/402; 801/802
PTX-366	x		U.S. Patent No. 3,109,892 to Helsdon	11/5/1963	MV3_ROKU0012897-MV3_ROKU0012902		401/402; 801/802
PTX-367	x		Google VP9 Bitstream & Decoding Process Specification, Version 0.6 (March 31, 2016)	2016	MV3_ROKU0012910-MV3_ROKU0013080		401/402; 801/802; 901

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PTX-368	x		Definition of "Set-Top Box (STB)," available at https://www.techopedia.com/definition/2284/set-top-box.stb .		MV3_ROKU0013081-MV3_ROKU0013083		401/402; 801/802; 901
PTX-369	x		"Wi-Fi Alliance® to Launch Wi-Fi CERTIFIED Miracast™ to Deliver Display Applications," available at https://www.wi-fi.org/news-events/newsroom/wi-fi-alliance-to-launch-wi-fi-certified-miracast-to-deliver-display (accessed January 14, 2020)	5/31/2012	MV3_ROKU0013084-MV3_ROKU0013085		401/402; 801/802; 901
PTX-370	x		Wi-Fi Alliance, Wi-Fi Display Technical Specification, Version 2.1	2017	MV3_ROKU0013086-MV3_ROKU0013281		401/402; 801/802; 901
PTX-371	x		NASA, "The Apollo 11 Telemetry Data Recordings: A Final Report" (2007)	2007	MV3_ROKU0013368-MV3_ROKU0013387		401/402; 801/802; 901
PTX-372	x		ATSC Digital Television Standard A/53 including Annexes A-E (1995)	1995	MV3_ROKU0013388-MV3_ROKU0013461		401/402; 801/802; 901
PTX-373	x		ATSC Digital Television Standard A/53: Parts 1-6 (2007)	2007	MV3_ROKU0013462-MV3_ROKU0013597		401/402; 801/802; 901
PTX-374	x		J.L.E. Baldwin <i>et al.</i> , "A Standards Converter Using Digital Techniques," Royal Television Society Journal, 3-11 (Jan./Feb. 1972) ("Baldwin Article")	1972	MV3_ROKU0013598-MV3_ROKU0013607		401/402; 801/802; 901
PTX-375	x		Article titled, "B.B.C Electronic Field Store Colour Television Converter," The Radio and Electronic Engineer 160		MV3_ROKU0013608		401/402; 801/802; 901
PTX-376	x		BBC Television, A British Engineering Achievement, 2s, 6d (1958)	1958	MV3_ROKU0013609-MV3_ROKU0013669		401/402; 801/802; 901
PTX-377	x		A.V. Lord and E.R. Rout, "A Review of Television Standards Conversion," BBC Engineering Division Monograph No. 55 (December 1964)	1964	MV3_ROKU0013670-MV3_ROKU0013691		401/402; 801/802; 901

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PTX-378	x		G.M. BBC-Le Couteur, "Digital Line Store Standards Conversion: Determination of the Optimum Interpolation Aperture Function," The British Broadcasting Corporation (BBC) (October 1973) ("BBC-Le Couteur")	1973	MV3_ROKU0013692-MV3_ROKU0013696		401/402; 801/802; 901
PTX-379	x		P. Rainger and E.R. Rout, "Television Standards Convertors Using a Line Store," 113(9) Proceedings of the Institution of Electrical Engineers 1437- 56 (September 1966)	1966	MV3_ROKU0013697-MV3_ROKU0013717		401/402; 801/802; 901
PTX-380	x		K. Blair Benson, "CBS Television Standards Conversion Techniques," 70 Journal of the SMPTE 628-32 (August 1961)	1961	MV3_ROKU0013718-MV3_ROKU0013722		401/402; 801/802; 901
PTX-381	x		"Charting the Digital Broadcasting Future," Final Report of the Advisory Committee on Public Interest Obligations of Digital Television Broadcasters (December 18, 1998)	1998	MV3_ROKU0013723-MV3_ROKU0013900		401/402; 801/802; 901
PTX-382	x		Yasuaki Kanatsugu <i>et al.</i> , "Development of MUSE Family Systems," IEEE (June 9, 1989)	1989	MV3_ROKU0013907-MV3_ROKU0013913		401/402; 801/802; 901
PTX-383	x		Dicky Howett, "Standards Conversion," in Television Innovations, 50 Technological Developments, Kelly Publications (2006)	2006	MV3_ROKU0013914-MV3_ROKU0013916		401/402; 801/802; 901
PTX-384	x		"Digital Techniques in Broadcast Engineering, A Progress Report from the B.B.C.," Supplement to the Radio and Electronics Engineer (April 1971)	1971	MV3_ROKU0013917-MV3_ROKU0013918		401/402; 801/802; 901
PTX-385	x		Marcelo S. Alencar, Digital Television Systems 3-64, 118-136 (2009)	2009	MV3_ROKU0013919-MV3_ROKU0014002		401/402; 801/802; 901
PTX-386	x		"Advisory Committee Final Report and Recommendation," Federal Communications Commission Advisory Committee on Advanced Television Service (November 28, 1995)	11/28/1995	MV3_ROKU0014003-MV3_ROKU0014037		401/402; 801/802; 901
PTX-387	x		Fourth Report and Order, <i>In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service</i> , No. 87-268, Federal Communications Commission FCC96-493 (December 24, 1996)	1996	MV3_ROKU0014072-MV3_ROKU0014108		401/402; 801/802; 901

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PTX-388	x		“Telecommunications: Glossary of Telecommunication Terms,” Federal Standard FED-STD-1037C		MV3_ROKU0014109- MV3_ROKU0014116		401/402; 801/802; 901
PTX-389	x		Donald G. Fink, Television Engineering (2nd ed. 1952)	1952	MV3_ROKU0014117- MV3_ROKU0014178		401/402; 801/802; 901
PTX-390	x		G.D. Monteath, “Visit to Rome: 29th August – 1st September 1960,” Research Department Report No. A-059 (October 1960)	1960	MV3_ROKU0014179- MV3_ROKU0014189		401/402; 801/802; 901
PTX-391	x		Gwyneth Davies Heynes, “Digital Television: A Glossary and Bibliography,” 86 SMPTE Journal (January 1977)	1977	MV3_ROKU0014190- MV3_ROKU0014193		401/402; 801/802; 901
PTX-392	x		Rolf R. Hainich & Oliver Bimber, DISPLAYS FUNDAMENTALS & APPLICATIONS (2011)	2011	MV3_ROKU0014194- MV3_ROKU0014316		401/402; 801/802; 901
PTX-393	x		Hans Bodeker, “The Development of German Standards-Conversion Technique,” EBU Review Part A - Technical (October 1958)	1958	MV3_ROKU0014317- MV3_ROKU0014321		401/402; 801/802; 901
PTX-394	x		“HDTV Demonstration at FCC Goes Smoothly, But Early Availability Doubted,” Communications Daily (January 8, 1987)	1987	MV3_ROKU0014322- MV3_ROKU0014323		401/402; 801/802; 901
PTX-395	x		Telefunken History		MV3_ROKU0014324- MV3_ROKU0014331		401/402; 801/802; 901
PTX-396	x		Keith Jack, VIDEO DEMYSTIFIED (5th ed. 2007)	2007	MV3_ROKU0014332- MV3_ROKU0014875		401/402; 801/802; 901
PTX-397	x		John Scott-Taggart, “Television in America, Part II,” 31(793) Popular Wireless & Television Times (August 14, 1937)	1937	MV3_ROKU0014876- MV3_ROKU0014878		401/402; 801/802; 901

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PTX-398	x		Arch C. Luther, DIGITAL VIDEO IN THE PC ENVIRONMENT (“Digital Video”) (2d ed. 1991)	1991	MV3_ROKU0014879-MV3_ROKU0014969		401/402; 801/802; 901
PTX-399	x		Arch Luther & Andrew Inglis, VIDEO ENGINEERING (3rd ed. 1999)	1999	MV3_ROKU0014970-MV3_ROKU0015134		401/402; 801/802; 901
PTX-400	x		F.C. McLean <i>et al.</i> , “The BBC Television Centre and its Technical Facilities,” The Proceedings of the Institution of Electrical Engineers (May 1962)	1962	MV3_ROKU0015135-MV3_ROKU0015157		401/402; 801/802; 901
PTX-401	x		Michael Rogers, “The Television of the Future,” Newsweek (April 4, 1988)	1988	MV3_ROKU0015158-MV3_ROKU0015160		401/402; 801/802; 901
PTX-402	x		Robert L. Myers, DISPLAY INTERFACES, Fundamentals and Standards (2002)	2002	MV3_ROKU0015161-MV3_ROKU0015328		401/402; 801/802; 901
PTX-403	x		“Technical Standards Converter,” NHK Technical Monograph, No. 17 (Mar. 1971)	1971	MV3_ROKU0015331-MV3_ROKU0015367		401/402; 801/802; 901
PTX-404	x		“NTSC, PAL, and SECAM Overview”		MV3_ROKU0015368-MV3_ROKU0015498		401/402; 801/802; 901
PTX-405	x		Dragos Ruiu, “An Overview of MPEG-2 - The 1997 Digital Video Test Symposium,” (1997)	1997	MV3_ROKU0015499-MV3_ROKU0015514		401/402; 801/802; 901
PTX-406	x		P. Rainger, “An Electronic Line-Standards Converter,” Electronics & Power, Journal of the Institution of Electrical Engineers, Vol. 10 (May 1964)	1964	MV3_ROKU0015515-MV3_ROKU0015519		401/402; 801/802; 901
PTX-407	x		E.R. Rout & R.E. Davies, “Electronic Standards Conversion for Transatlantic Color Television,” Journal of SMPTE 77(1) (January 1968)	1968	MV3_ROKU0015520-MV3_ROKU0015525		401/402; 801/802; 901

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PTX-408	x		M.V. Sullivan, "Apollo Black-and-White Television Scan Converter," 79 Journal of the SMPTE 621-25 (July 1970)	1970	MV3_ROKU0015526-MV3_ROKU0015530		401/402; 801/802; 901
PTX-409	x		A.V. Lord <i>et al.</i> , "An Outline of Synchronous Standards Conversion Using a Delay-Line Interpolator," I.E.E. Conference Report Series No. 5 Television Engineering Report of the International Television Conference Held in London (July 1962)	1962	MV3_ROKU0015531-MV3_ROKU0015542		401/402; 801/802; 901
PTX-410	x		"Television from Paris," Wireless World (August 1952)	1952	MV3_ROKU0015543-MV3_ROKU0015545		401/402; 801/802; 901
PTX-411	x		THE YEAR THAT MADE THE DAY, How the BBC Planned and Prepared the Coronation Day Broadcasts, BBC Broadcasting House		MV3_ROKU0015546-MV3_ROKU0015622		401/402; 801/802; 901
PTX-412	x		"NTSC Broadcast Standards," Voice & Vision, Ch. 9 (Mick Hurbis-Cherrier and Focal Press 2007)	2007	MV3_ROKU0015623-MV3_ROKU0015636		401/402; 801/802; 901
PTX-413	x		Marcus Weise & Diana Weynand, HOW VIDEO WORKS - From Analog to High Definition (2d ed. 2007)	2007	MV3_ROKU0015637-MV3_ROKU0015758		401/402; 801/802; 901
PTX-414	x		Westinghouse Press Release, "Westinghouse TV Cameras Bring Apollo Video from Liftoff to Lunar Landscape"		MV3_ROKU0015759-MV3_ROKU0015772		401/402; 801/802; 901
PTX-415	x		"Television Standards Converter Using Digital Techniques," 43(3) Radio and Electronic Engineer 230-32 (March 1973)	1973	MV3_ROKU0015773-MV3_ROKU0015775		401/402; 801/802; 901
PTX-416	x		Tim Nollen and Jordan Boretz, "Roku (ROKU US), The next leg of CTV device and ad growth," Macquarie Research (October 9, 2019)	10/9/2019	MV3_ROKU0009778-MV3_ROKU0009795		401/402; 801/802; 901
PTX-417	x		Roku TV User Guide Version 8.0		ROKU00000049-ROKU00000193		
PTX-418	x		TCL Roku TV S-Series S301 / S303 / S305 User Guide		ROKU00000194-ROKU00000207		

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EXHIBIT NO.	EXPECT TO OFFER	MAY OFFER	EXHIBIT DESCRIPTION	EXHIBIT DATE	BATES RANGE	MV3's OBJECTIONS	ROKU's OBJECTIONS
PTX-419	x		Andrew Soh, "How to Miracast to Roku TV/Roku Devices," Networking - Roku CONFLUENCE	4/10/2017	ROKU00006255-ROKU00006256		
PTX-420	x		Schematic for Amarillo 4K SoC Board PVT	8/8/2017	ROKU00006370-ROKU00006378		
PTX-421	x		Schematic for Bryan MP PCB	12/15/2017	ROKU00006379-ROKU00006399		
PTX-422	x		Fourth Amendment to Roku TV License and Distribution Agreement between Roku and Best Buy China Ltd., effective May 16, 2017	5/16/2017	ROKU00011334-ROKU00011338		
PTX-423	x		Fifth Amendment to Roku TV License and Distribution Agreement between Roku, Inc. and Best Buy China Ltd., effective December 12, 2017	12/12/2017	ROKU00011339-ROKU00011341		
PTX-424	x		First Amendment to Roku TV License and Distribution Agreement between Roku and Best Buy China Ltd., effective October 15, 2015	10/15/2015	ROKU00011359-ROKU00011368		
PTX-425	x		Second Amendment to Roku TV License and Distribution Agreement between Roku and Best Buy China Ltd., effective February 1, 2016	2/1/2016	ROKU00011369-ROKU00011373		
PTX-426	x		Third Amendment to Roku TV License and Distribution Agreement between Roku and Best Buy China Ltd., effective November 14, 2016	11/14/2016	ROKU00011374-ROKU00011382		
PTX-427	x		Fourth Amendment to Roku TV License and Distribution Agreement between Roku, Inc. and Best Buy China Ltd., effective May 16, 2017	5/16/2017	ROKU00011383-ROKU00011386		
PTX-428	x		Roku/Best Buy - Roku TV Term Sheet between Roku and Best Buy China Ltd., signed June 18, 2014	6/18/2014	ROKU00011387-ROKU00011393		
PTX-429	x		Best Buy MDF Authorization Agreement	5/3/2015	ROKU00011484-ROKU00011485		
PTX-430	x		Confidentiality Agreement between Best Buy Enterprise Services, Inc. and Roku, Inc.	2/14/2013	ROKU00011486-ROKU00011488		
PTX-431	x		First Amendment to Roku TV License and Distribution Agreement between Roku, Inc. and Best Buy China Ltd., effective October 15, 2015	10/15/2015	ROKU00011489-ROKU00011497		
PTX-432	x		[Draft] Letter to Best Buy China, Ltd. from Roku, Inc.	August 2016	ROKU00011498		106; 401/402
PTX-433	x		Schedule A Roku TV Sublicense under Rovi, TiVo and IV Patents with Best Buy China, Ltd., executed March 31, 2017	3/31/2017	ROKU00011499-ROKU00011511		
PTX-434	x		Letter to Roku, Inc. from Best Buy Co., Inc.	6/18/2015	ROKU00011512		

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PTX-435	x		Which? Best Buy Logo License Agreement Internet TV Boxes between Which? Limited and Roku Europe Ltd.	4/6/2018	ROKU00011513-ROKU00011561		
PTX-436	x		Roku TV Brand Owner Term Sheet between Roku, Inc. and Curtis International Ltd. and Display-Vu Corp. (unexecuted)		ROKU00011562-ROKU00011569		
PTX-437	x		Roku TV License & Distribution Agreement between Roku, Inc. and Curtis International Ltd. and Display-Vu Corp., effective March 7, 2017	3/7/2017	ROKU00011570-ROKU00011614		
PTX-438	x		Roku TV Model Addendum between Curtis International Ltd. and Display-Vu Corp. and Roku., Inc., effective March 7, 2017	3/7/2017	ROKU00011615-ROKU00011618		
PTX-439	x		Hard Bundled Product Agreement between Roku, Inc. and Curtis International Ltd., effective July 6, 2018	7/6/2018	ROKU00011619-ROKU00011633		
PTX-440	x		Roku TV Brand Owner Term Sheet between Roku, Inc. and Curtis International Ltd. and Display-Vu Corp., executed March 17, 2017	3/17/2017	ROKU00011634-ROKU00011642		
PTX-441	x		Amendment One to Roku TV License and Distribution Agreement between Roku, Inc. and Curtis International Ltd., effective January 1, 2019	1/1/2019	ROKU00011643-ROKU00011646		
PTX-442	x		Roku TV License and Distribution Agreement between Roku and Curtis International Ltd. and Display-Vu Corp., effective March 7, 2017	3/7/2017	ROKU00011647-ROKU00011692		
PTX-443	x		Roku TV Model Addendum between Roku and Curtis International Ltd. and Display-Vu Corp., effective March 7, 2017	3/7/2017	ROKU00011693-ROKU00011697		
PTX-444	x		Letter to Curtis International Ltd. and Display-Vu Corp. from Roku, Inc.	8/5/2019	ROKU00011698-ROKU00011699		
PTX-445	x		Letter to Curtis International Ltd. and Display-Vu Corp. from Roku, Inc. (unsigned)	8/5/2019	ROKU00011700		106; 401/402
PTX-446	x		Letter to Element TV Company LP from Roku, Inc. (unsigned)	8/5/2019	ROKU00011701		106; 401/402
PTX-447	x		Amendment One to Roku TV License and Distribution Agreement between Roku, Element TV Company LP, and Element Television Company, LLC, effective January 1, 2019	1/1/2019	ROKU00011702-ROKU00011704		
PTX-448	x		Roku TV Brand Owner Term Sheet between Roku and Element TV Company, LP, executed December 5, 2016	12/5/2016	ROKU00011705-ROKU00011711		
PTX-449	x		Roku TV License and Distribution Agreement between Roku, Element TV Company LP, and Element Television Company, LLC, effective March 9, 2017	3/9/2017	ROKU00011712-ROKU00011771		

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PTX-450	x		Roku TV Model Addendum between Roku and Element TV Company LP, effective March 9, 2017	3/9/2017	ROKU00011772-ROKU00011780		
PTX-451	x		Letter to Element TV Company LP from Roku, Inc.	8/5/2019	ROKU00011781-ROKU00011782		
PTX-452	x		Roku TV Brand Owner Term Sheet between Roku and Funai Electric Co., Ltd, executed June 22, 2017	6/22/2017	ROKU00011783-ROKU00011791		
PTX-453	x		Amendment One to Roku TV License and Distribution Agreement between Roku and Funai Electric Co., Ltd., effective January 1, 2019	1/1/2019	ROKU00011792-ROKU00011793		
PTX-454	x		Roku TV Model Addendum between Roku and Funai Electric Co., Ltd., effective December 27, 2017	12/27/2017	ROKU00011794-ROKU00011801		
PTX-455	x		Roku TV Model Addendum between Roku and Funai Electric Co., Ltd., effective August 20, 2018	8/20/2018	ROKU00011802-ROKU00011807		
PTX-456	x		Roku TV License and Distribution Agreement between Roku and Funai Electric Co., Ltd., effective March 3, 2017	3/3/2017	ROKU00011808-ROKU00011864		
PTX-457	x		Letter to Funai Electric Co., Ltd. from Roku, Inc.	8/5/2019	ROKU00011865-ROKU00011866		
PTX-458	x		Letter to Funai Electric Co., Ltd. from Roku, Inc. (unsigned)	8/5/2019	ROKU00011867		106; 401/402
PTX-459	x		Letter agreement between Funai Electric Co., Ltd. and Roku, Inc.	6/29/2018	ROKU00011868		
PTX-460	x		Roku TV Model Addendum between Roku and Funai Electric Co., Ltd., effective August 20, 2018	8/20/2018	ROKU00011869-ROKU00011876		
PTX-461	x		Confidentiality Agreement between Haier America Trading, L.L.C. and Roku, Inc., effective August 2, 2011	8/2/2011	ROKU00011877-ROKU00011879		
PTX-462	x		Roku TV License and Distribution Agreement between Roku and Haier America Trading, LLC and Roku, effective June 10, 2015	6/10/2015	ROKU00011880-ROKU00011927		
PTX-463	x		Roku TV Term Sheet between Roku, Inc. and Haier America Trading, LLC, executed June 10, 2015	6/10/2015	ROKU00011928-ROKU00011936		
PTX-464	x		Roku TV Term Sheet between Roku, Inc. and Haier America Trading, LLC (unexecuted)		ROKU00011937-ROKU00011944		
PTX-465	x		Roku TV License and Distribution Agreement between Roku, Inc. and Haier America Trading LLC, effective June 10, 205	6/10/2015	ROKU00011945-ROKU00011991		

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PTX-466	x		Hisense Roku TV End User Agreement between Roku, Inc. and Hisense USA Corporation		ROKU00011992-ROKU00011997		
PTX-467	x		First Amendment to License and Distribution Agreement between Roku, Inc., Hisense USA Corporation, and Hisense International Co. Ltd., effective January 1, 2015	1/1/2015	ROKU00011998-ROKU00012024		
PTX-468	x		Second Amendment to License and Distribution Agreement between Roku, Inc., Hisense USA Corporation, Hisense International Co., Ltd., effective June 24, 2016	6/24/2016	ROKU00012025-ROKU00012030		
PTX-469	x		Schedule A Sublicense between Roku, Inc. and Hisense USA Corporation, effective January 1, 2017 (unexecuted)		ROKU00012031-ROKU00012044		106; 401/402
PTX-470	x		Letter from Roku, Inc. to Hisense USA Corporation amending the License and Distribution Agreement (unsigned)	8/5/2019	ROKU00012045		106; 401/402
PTX-471	x		Letter agreement from Roku, Inc. to Hisense USA Corporation (unsigned)	4/19/2017	ROKU00012046		106; 401/402
PTX-472	x		[Draft] Letter from Roku, Inc. to Hisense USA Corporation		ROKU00012047		106; 401/402
PTX-473	x		[Draft] License and Distribution Agreement between Roku, Hisense USA Corporation, and Hisense International		ROKU00012053-ROKU00012090		106; 401/402
PTX-474	x		Letter from Roku, Inc. to Hisense USA Corporation	10/9/2014	ROKU00012091-ROKU00012092		
PTX-475	x		First Amendment to License and Distribution Agreement between Roku, Hisense USA Corporation, and Hisense International Co. Ltd., effective January 1, 2015	1/1/2015	ROKU00012093-ROKU00012120		
PTX-476	x		Fifth Amendment to License and Distribution Agreement between Roku, Hisense USA Corporation, Hisense International Co. Ltd., effective April 25, 2018	4/25/2018	ROKU00012126-ROKU00012131		
PTX-477	x		Fourth Amendment to License and Distribution Agreement between Roku, Inc., Hisense USA Corporation, and Hisense International Co. Ltd., effective April 1, 2018	4/1/2018	ROKU00012132-ROKU00012135		
PTX-478	x		License and Distribution Agreement Between Roku, Inc., Hisense USA Corporation, and Hisense International Co. Ltd., effective July 22, 2014	7/22/2014	ROKU00012136-ROKU00012231		
PTX-479	x		Second Amendment to License and Distribution Agreement between Roku, Inc., Hisense USA Corporation, and Hisense International Co. Ltd., effective June 24, 2016	6/24/2016	ROKU00012232-ROKU00012238		
PTX-480	x		Letter Agreement between Hisense USA Corporation and Roku, Inc.	7/3/2018	ROKU00012239-ROKU00012240		

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PTX-481	x		Letter to Hisense USA Corporation from Roku, Inc.	8/5/2019	ROKU00012241-ROKU00012242		
PTX-482	x		Roku TV Brand Owner Term Sheet between Roku, Inc. and Hisense UK Limited, executed January 2, 2019	1/2/2019	ROKU00012243-ROKU00012250		
PTX-483	x		Mutual Non-Disclosure Agreement between Roku, Inc. and Hisense USA Corporation, effective June 6, 2012	6/6/2012	ROKU00012251-ROKU00012253		
PTX-484	x		Roku, Inc. TAL letter for Hisense USA Corporation	11/20/2018	ROKU00012254-ROKU00012255		
PTX-485	x		Hisense and Roku TV Collaboration Term Sheet, executed September 28, 2013	9/28/2013	ROKU00012256-ROKU00012262		
PTX-486	x		Presentation titled, "Project Liberty - List of Licenses"	October 2013	ROKU00012263-ROKU00012266		
PTX-487	x		Roku Brand Owner License & Distribution Agreement between Roku, Inc., Hisense UK Limited, and Hisense International (Hong Kong) Europe Investment Co., Limited, effective November 8, 2018	11/8/2018	ROKU00012267-ROKU00012317		
PTX-488	x		Deed of Guarantee between Roku and Hisense International (Hong Kong) Europe Investment Co., Limited, effective November 8, 2018	11/8/2018	ROKU00012318-ROKU00012326		
PTX-489	x		Roku Platform Addendum between Roku, Inc. and Hisense UK Limited, effective November 8, 2018	11/8/2018	ROKU00012327-ROKU00012333		
PTX-490	x		Roku TV License and Distribution Agreement between Roku, Inc. and Hitachi America, Ltd., effective March 10, 2016	3/10/2016	ROKU00012334-ROKU00012380		
PTX-491	x		Schedule A Sublicense between Roku, Inc. and Hitachi (unexecuted)		ROKU00012381-ROKU00012394		
PTX-492	x		Letter to Hitachi America, Ltd. from Roku, Inc. (unsigned)	8/5/2019	ROKU00012395		106; 401/402
PTX-493	x		Letter to Hitachi America, Ltd. from Roku, Inc. (unsigned)	4/19/2017	ROKU00012396		106; 401/402
PTX-494	x		[Draft] Letter to Hitachi America, Ltd. from Roku, Inc.		ROKU00012397		106; 401/402
PTX-495	x		Roku TV Model Addendum between Roku and Hitachi America, Ltd., effective March 10, 2016	3/10/2016	ROKU00012398-ROKU00012403		

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PTX-496	x		Roku TV Model Addendum between Roku and Hitachi America, Ltd., effective March 10, 2016	3/10/2016	ROKU00012404-ROKU00012409		
PTX-497	x		First Amendment to Roku TV License and Distribution Agreement between Roku and Hitachi America, Ltd., effective March 31, 2018	3/31/2018	ROKU00012410-ROKU00012412		
PTX-498	x		Letter Agreement between Hitachi America, Ltd. and Roku, Inc.	8/4/2017	ROKU00012413-ROKU00012415		
PTX-499	x		Roku TV Model Addendum between Roku and Hitachi America, Ltd., effective July 13, 2017	7/13/2017	ROKU00012416-ROKU00012423		
PTX-500	x		Amendment Two to Roku TV License and Distribution Agreement between Roku and Hitachi America, Ltd., effective January 1, 2019	1/1/2019	ROKU00012424-ROKU00012425		
PTX-501	x		Roku TV License & Distribution Agreement between Roku, Inc. and Hitachi America, Ltd., effective March 10, 2016 (executed by Hitachi)	3/10/2016	ROKU00012426-ROKU00012472		
PTX-502	x		Roku TV License & Distribution Agreement between Roku, Inc. and Hitachi America, Ltd., effective March 10, 2016	3/10/2016	ROKU00012473-ROKU00012520		
PTX-503	x		Letter to Hitachi America, Ltd. from Roku, Inc. amending the Disclosed Third Party IPR and Roku TV Model Addendum	8/5/2019	ROKU00012521-ROKU00012522		
PTX-504	x		Roku TV Model Addendum between Roku, Inc. and MTC Electronic Co., Limited, effective June 18, 2018	6/18/2018	ROKU00012523-ROKU00012527		
PTX-505	x		Roku TV License & Distribution Agreement between Roku, Inc. and MTC Electronic Co., Limited HK and Shenzhen MTC Co., Ltd., effective June 18, 2018	6/18/2018	ROKU00012528-ROKU00012570		
PTX-506	x		Letter to MTC Electronic Co., Limited HK from Roku amending the Disclosed Third Party IPR and Roku TV Model Addendum (unsigned)	8/5/2019	ROKU00012571		106; 401/402
PTX-507	x		Roku TV Brand Owner Term Sheet between Roku and Shenzhen MTC Co., Ltd., executed June 12, 2018	6/12/2018	ROKU00012572-ROKU00012578		
PTX-508	x		Roku TV License & Distribution Agreement between Roku, Inc. and MTC Electronic Co., Limited HK, and Shenzhen MTC Co., Ltd., effective June 18, 2018	6/18/2018	ROKU00012579-ROKU00012627		
PTX-509	x		Roku TV Brand Addendum between Roku, Inc. and MTC Electronic Co., Limited HK, effective November 15, 2018	11/15/2018	ROKU00012628-ROKU00012634		
PTX-510	x		Roku TV Brand Addendum between Roku, Inc. and MTC Electronic Co., Limited HK, effective November 15, 2018	11/15/2018	ROKU00012635-ROKU00012640		

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PTX-511	x		Letter to MTC Electronic Co., Limited HK from Roku, Inc.	8/5/2019	ROKU00012641-ROKU00012642		
PTX-512	x		Roku Brand Owner License & Distribution Agreement between Roku, Inc. and Top Victory Investments Limited, effective February 15, 2019	2/15/2019	ROKU00012643-ROKU00012688		
PTX-513	x		Roku Platform Addendum between Roku, Inc. and Top Victory Investments Limited, effective February 15, 2019	2/15/2019	ROKU00012689-ROKU00012696		
PTX-514	x		Schedule A Sublicense between Roku, Inc., TTE Corporation, and TCL Multimedia Technology Holdings Ltd., effective January 1, 2017 (unexecuted)	1/1/20017	ROKU00012711-ROKU00012724		
PTX-515	x		Letter to TTE Technology, Inc. c/o TCL North America from Roku, Inc. (unsigned)	8/5/2019	ROKU00012725		106; 401/402
PTX-516	x		Letter to TTE Technology, Inc. from Roku, Inc. (unsigned)	4/19/2017	ROKU00012726		106; 401/402
PTX-517	x		[Draft] Letter to TTE Corporation from Roku, Inc.	August 2016	ROKU00012727		106; 401/402
PTX-518	x		Roku TV Manufacturing License and Distribution Agreement between Roku, Inc. and Top Victory Investments Limited, effective July 11, 2014 (unexecuted)	7/11/2014	ROKU00012728-ROKU00012762		
PTX-519	x		Third Amendment to License and Distribution Agreement between Roku, Inc., TTE Corporation, and TCL Multimedia Technology Holdings Ltd., effective August 9, 2018	8/9/2018	ROKU00012769-ROKU00012773		
PTX-520	x		Letter to TTE Corporation from Roku, Inc.	6/10/2014	ROKU00012774		
PTX-521	x		Fourth Amendment to License and Distribution Agreement between Roku, Inc., TTE Corporation, and TCL Multimedia Technology Holdings Ltd., effective April 23, 2018	4/23/2018	ROKU00012775-ROKU00012777		
PTX-522	x		Letter Agreement between Roku, Inc. and TTE Corporation	12/29/2017	ROKU00012778-ROKU00012781		
PTX-523	x		Roku TV Brand Addendum between Roku, Inc. and TCL Moka International Limited, effective November 16, 2018	11/16/2018	ROKU00012782-ROKU00012788		
PTX-524	x		Letter Agreement between Roku, Inc. and TTE Corporation	10/19/2018	ROKU00012789-ROKU00012790		
PTX-525	x		Letter Agreement between TTE Corporation and Roku, Inc. (executed by Roku, Inc.)	9/19/2018	ROKU00012791-ROKU00012793		

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PTX-526	x		TCL and Roku TV Collaboration Term Sheet between Roku, Inc. and TTE Corporation executed on August 6, 2013	8/6/2013	ROKU00012794-ROKU00012798		
PTX-527	x		Letter to TTE Technology Inc. c/o TCL North America from Roku, Inc.	8/5/2019	ROKU00012799-ROKU00012800		
PTX-528	x		First Amendment to License and Distribution Agreement between Roku, Inc., TTE Corporation, and TCL Multimedia Technology Holdings Ltd., effective January 1, 2016	1/1/2016	ROKU00012801-ROKU00012816		
PTX-529	x		License and Distribution Agreement between Roku, Inc., TTE Corporation, and TCL Multimedia Technology Holdings Ltd., effective May 8, 2014	5/8/2014	ROKU00012817-ROKU00012886		
PTX-530	x		Button Test Agreement between Roku, Inc., TTE Corporation, and TCL Multimedia Technology Holdings Ltd., effective June 2015	June 2015	ROKU00012887-ROKU00012891		
PTX-531	x		Letter to TTE Corporation from Roku, Inc. (unsigned)	6/10/2014	ROKU00012892		106; 401/402
PTX-532	x		Letter to TTE Corporation from Roku, Inc.	5/3/2017	ROKU00012893-ROKU00012894		
PTX-533	x		Letter to TTE Corporation from Roku, Inc. (unsigned)	5/3/2017	ROKU00012895		106; 401/402
PTX-534	x		[Draft] License and Distribution Agreement between Roku, Inc., TTE Corporation, and TCL Multimedia Technology Holdings Ltd.		ROKU00012896-ROKU00012931		106; 401/402
PTX-535	x		Mutual Non-Disclosure Agreement between Roku, Inc. and TTE Corporation, effective April 1, 2013	4/1/2013	ROKU00012932		
PTX-536	x		Letter to TTE Technology, Inc. from Roku, Inc.	4/19/2017	ROKU00012935		
PTX-537	x		Amendment One to Roku TV Model Addendum between Roku, Inc. and Westinghouse Electronics Limited, effective May 2019	May 2019	ROKU00012936-ROKU00012937		
PTX-538	x		Letter Agreement between Roku, Inc. and Westinghouse Electronics Limited	February 2019	ROKU00012938-ROKU00012939		
PTX-539	x		Roku TV License & Distribution Agreement between Roku, Inc. and Westinghouse Electronics Limited, effective November 15, 2018	11/15/2018	ROKU00012940-ROKU00012984		
PTX-540	x		Roku TV Model Addendum between Roku, Inc. and Westinghouse Electronics Limited, effective November 15, 2018	11/15/2018	ROKU00012985-ROKU00012991		

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PLAINTIFF MV3 PARTNERS LLC'S TRIAL EXHIBIT LIST

EXHIBIT NO.	EXPECT TO OFFER	MAY OFFER	EXHIBIT DESCRIPTION	EXHIBIT DATE	BATES RANGE	MV3's OBJECTIONS	ROKU's OBJECTIONS
PTX-541	x		Letter to Westinghouse Electronics Limited from Roku, Inc.	8/5/2019	ROKU00012992-ROKU00012993		
PTX-542	x		Letter to Westinghouse Electronics Limited from Roku, Inc. (unsigned)	8/5/2019	ROKU00012994		106; 401/402
PTX-543	x		[Draft] Dallas Product Requirements Document (PRD), last modified October 1, 2014		ROKU00013400-ROKU00013419		106; 401/402
PTX-544	x		Dallas Program Status report (Roku 4)		ROKU00013420-ROKU00013423		
PTX-545	x		Manufacturer BOM Report - TLA, Amarillo, US (3800R)		ROKU00013552 [produced as native]		
PTX-546	x		Manufacturer BOM Report - (INA) TLA, Amarillo-2019, US (3810R), with Alice-7		ROKU00013553 [produced as native]		
PTX-547	x		Manufacturer BOM Report - (INA) TLA - Austin (Model 4200R XS)		ROKU00013554 [produced as native]		
PTX-548	x		Manufacturer BOM Report - TLA - Briscoe, 3600R with Sweetwater-2n		ROKU00013555 [produced as native]		
PTX-549	x		Manufacturer BOM Report - TLA, Bryan-2, Retail US (4670R) – Assembled in China		ROKU00013556 [produced as native]		
PTX-550	x		Manufacturer BOM Report - TLA, Cooper-4, US, 4640R		ROKU00013557 [produced as native]		
PTX-551	x		Manufacturer BOM Report - TLA, Dallas, US, 4400R		ROKU00013558 [produced as native]		
PTX-552	x		Manufacturer BOM Report - TLA, Fargo, US (2200R)		ROKU00013559 [produced as native]		
PTX-553	x		Manufacturer BOM Report - (INA) PCBA, Gilbert 4K		ROKU00013560 [produced as native]		
PTX-554	x		Manufacturer BOM Report - TLA, Gilbert-R0, (3900R)		ROKU00013561 [produced as native]		
PTX-555	x		Manufacturer BOM Report - TLA, Littlefield-R1, Walmart (3710RW)		ROKU00013562 [produced as native]		

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PTX-556	x		Manufacturer BOM Report - TLA, Mustang-2, US, 4230R		ROKU00013563 [produced as native]		
PTX-557	x		Manufacturer BOM Report - TLA, Nemo-0, US (3930R) - Assembled in China		ROKU00013564 [produced as native]		
PTX-558	x		Manufacturer BOM Report -(INA) TLA - Sugarland, US, 3500R		ROKU00013565 [produced as native]		
PTX-559	x		Manufacturer BOM Report - (INA) TLA, TYLER2, US, 2720R		ROKU00013566 [produced as native]		
PTX-560	x		Manufacturer BOM Report for TLA, Amarillo US (3800R)		ROKU00014210 [produced as native]		
PTX-561	x		Manufacturer BOM Report - Amarillo-2019, US (3810R), with Alice-7		ROKU00014233 [produced as native]		
PTX-562	x		Manufacturer BOM Report - TLA Austin (Model 4200R XS)		ROKU00014234 [produced as native]		
PTX-563	x		Manufacturer BOM Report - TLA, Briscoe, 3600R with Sweetwater-2n		ROKU00014251 [produced as native]		
PTX-564	x		Manufacturer BOM Report - TLA, Bryan-2, Retail US (4670R) - Assembled in China		ROKU00014286 [produced as native]		
PTX-565	x		Manufacturer BOM Report - TLA, Cooper-4, US, 4640R		ROKU00014287 [produced as native]		
PTX-566	x		Manufacturer BOM Report - TLA, Dallas, US, 4400R		ROKU00014289 [produced as native]		
PTX-567	x		Manufacturer BOM Report, TLA, Fargo, US (2200R)		ROKU00014344 [produced as native]		
PTX-568	x		Manufacturer BOM Report - (INA) PCBA, Gilbert 4K		ROKU00014346 [produced as native]		
PTX-569	x		Manufacturer BOM Report - TLA, Gilbert-R0, (3900R)		ROKU00014360 [produced as native]		
PTX-570	x		Manufacturer BOM Report - TLA, Littlefield-R1, Walmart (3710RW)		ROKU00014382 [produced as native]		

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PTX-571	x		Manufacturer BOM Report - TLA, Mustang-2, US, 4230R		ROKU00014383 [produced as native]		
PTX-572	x		Manufacturer BOM Report - TLA, Nemo-0, US (3930R) - Assembled in China		ROKU00014412 [produced as native]		
PTX-573	x		Manufacturer BOM Report - (INA) TLA - Sugarland, US, 3500R		ROKU00014413 [produced as native]		
PTX-574	x		Manufacturer BOM Report - (INA) TLA - Tyler2, US, 2720R		ROKU00014414 [produced as native]		
PTX-575	x		Roku – Longview (UHD) BOM		ROKU0026375 [produced as native]		
PTX-576	x		Reno Main Board BOM		ROKU0026464 [produced as native]		
PTX-577	x		Roku TV Malone Reference Design BOM		ROKU0026465 [produced as native]		
PTX-578	x		Roku Fort Worth A13 BOM Compress; A13 Split		ROKU0026538 [produced as native]		
PTX-579	x		Roku Midland (FHD) BOM		ROKU0026539 [produced as native]		
PTX-580	x		Roku TV License and Distribution Agreement between Roku, Inc. and Best Buy China Ltd. (Bermuda), effective June 18, 2014	6/18/2014	ROKU0027572- ROKU0027661		
PTX-581	x		Roku Ready and Hard Bundled Product Agreement between Roku, Inc. and Curtis International Ltd., effective July 16, 2013	7/16/2013	ROKU0027662- ROKU0027674		
PTX-582	x		Amendment No. 1 to Supply Agreement between Roku, Inc. and Hon Hai Precision Ind. Co. Ltd., executed June 28, 2012	6/28/2012	ROKU0027675- ROKU0027677		
PTX-583	x		Supply Agreement between Roku, Inc. and Hon Hai Precision Ind. Co. Ltd., executed August 23, 2011	8/23/2011	ROKU0027678- ROKU0027694		
PTX-584	x		Supply Agreement between Like-On Technology Corporation and Roku, Inc., effective October 25, 2011	10/25/2011	ROKU0027695- ROKU0027704		
PTX-585	x		Roku Ready and Hard Bundled Product Agreement Addendum between Roku, Inc. and Curtis International Ltd., effective July 16, 2013	7/16/2013	ROKU0027705		

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PTX-586	x		Letter from Roku, Inc. to DVDO, Inc. notifying DVDO of Roku's intent not to renew the Roku Ready and Hard Bundled Product Agreement	5/6/2015	ROKU0027706-ROKU0027707		
PTX-587	x		Roku Ready and Hard Bundled Product Agreement between Roku, Inc. and DVDO Inc., effective December 1, 2013	12/1/2013	ROKU0027708-ROKU0027721		
PTX-588	x		License and Distribution Agreement between Roku, Inc. and Hisense USA Corporation, effective July 22, 2014	7/22/2014	ROKU0027722-ROKU0027817		
PTX-589	x		Roku TV License and Distribution Agreement between Roku, Inc. and Haier America Trading LLC, effective June 10, 2015	6/10/2015	ROKU0027818-ROKU0027865		
PTX-590	x		Roku Ready and Hard Bundled Product Agreement between Roku, Inc. and Hisense USA Corporation, effective May 30, 2014	5/30/2014	ROKU0027866-ROKU0027879		
PTX-591	x		Hard Bundled Product Agreement between Roku, Inc. and Digital Media Division, effective December 11, 2014	12/11/2014	ROKU0027880-ROKU0027891		
PTX-592	x		Roku Ready and Hard Bundled Product Agreement between Roku, Inc. and ON Corporation, effective April 10, 2014	4/10/2014	ROKU0027892-ROKU0027908		
PTX-593	x		Hard Bundled Product Agreement between Roku, Inc. and Oppo Digital, Inc., effective March 6, 2013	3/6/2013	ROKU0027909-ROKU0027918		
PTX-594	x		Roku Ready and Hard Bundled Product Agreement between Roku, Inc. and SANYO Manufacturing Corporation, effective January 1, 2014	1/1/2014	ROKU0027919-ROKU0027936		
PTX-595	x		Hard Bundled Product Agreement between Roku, Inc. and Sceptre, Inc., effective October 31, 2013 (executed by Scepter, Inc.)	10/31/2013	ROKU0027937-ROKU0027944		
PTX-596	x		Roku Ready Product Agreement between Roku, Inc. and Sharp Corporation, effective June 9, 2014	6/9/2014	ROKU0027945-ROKU0027984		
PTX-597	x		License and Distribution Agreement between Roku, Inc. and TTE Corporation, effective May 8, 2014	5/8/2014	ROKU0027985-ROKU0028054		
PTX-598	x		Roku Ready and Hard Bundled Product Agreement between Roku, Inc. and TMAX Digital, Inc. , effective September 18, 2013	9/18/2013	ROKU0028055-ROKU0028067		
PTX-599	x		Roku TV Manufacturing License and Distribution Agreement between Roku, Inc. and Top Victory Investments Limited, effective July 11, 2014	7/11/2014	ROKU0028068-ROKU0028104		
PTX-600	x		Universal Electronics invoice	1/27/2010	ROKU0028105		
PTX-601	x		The External Control Guide, Roku Streaming Player Version 2.8	2010	ROKU0028162-ROKU0028168		401/402; 403

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PTX-602	x		Roku: ECP – External Control Protocol for Roku		ROKU0028169-ROKU0028174		401/402; 403
PTX-603	x		Roku: ECP-1.0.0	11/19/2014	ROKU0028175-ROKU0028181		401/402; 403
PTX-604	x		Roku Remote API – External Control Protocol		ROKU0028182-ROKU0028198		401/402; 403
PTX-605	x		Letter from Roku, Inc. confirming that Wal-Mart Stores, Inc. has been granted certain use rights to the Roku and Roku TV logos and trademarks in connection with packaging and promotion	6/3/2019	ROKU0028637-ROKU0028638		
PTX-606	x		Roku TV & Audio Device License & Distribution Agreement between Roku, Inc. and Walmart Inc., effective October 1, 2018	10/1/2018	ROKU0028641-ROKU0028684		
PTX-607	x		Roku Model Addendum between Roku, Inc. and Walmart Inc. pursuant to that certain Roku TV & Audio Device License & Distribution Agreement, effective May 1, 2019	5/1/2019	ROKU0028685-ROKU0028692		
PTX-608	x		Walmart General Merchandise Supplier Agreement with Roku Inc.	4/11/2014	ROKU0028693-ROKU0028703		
PTX-609	x		Correspondence regarding terms for the Walmart Supplier Agreement Amendment	3/7/2016	ROKU0028704-ROKU0028709		
PTX-610	x		Supplier Agreement between Roku Inc. and Wal-Mart Stores, Inc. <i>et al.</i>		ROKU0028710-ROKU0028721		
PTX-611	x		HEVC Attachment 1, dated October 1, 2015	10/1/2015	ROKU0028722-ROKU0028745		
PTX-612	x		Amendment No. 1 to Supply Agreement between Roku, Inc. and Hon Hai Precision Ind. Co. Ltd., effective July 18, 2011	7/18/2011	ROKU0028942-ROKU0028944		
PTX-613	x		Supply Agreement between Roku, Inc. and Hon Hai Precision Ind. Co. Ltd., executed August 23, 2011	8/23/2011	ROKU0028945-ROKU0028961		
PTX-614	x		Supply Agreement between Roku, Inc. and Hon Hai Precision Ind. Co. Ltd., executed July 19, 2011 by Roku, Inc.	7/19/2011	ROKU0028966-ROKU0028982		
PTX-615	x		Royalty Payment Summary, Q3 2011 - Q3 2019		ROKU0029141		
PTX-616	x		Presentation titled, “Streaming Leadership Study Q2 2016”		ROKU0029187 [produced as native]		403

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PTX-617	x		Presentation titled, “ Streaming Leadership Study Q4 2018”	January 2019	ROKU0029192 [produced as native]		403
PTX-618	x		Guide to the Use of the ATSC Digital Television Standard A/54 (1995)	1995	MV3_ROKU0021716- MV3_ROKU0021863		801/802
PTX-619	x		Hoffman, Chris, “How to Mirror Your Windows or Android Device’s Screen on Your Roku,” How to Geek (June 30, 2017), available at https://www.howtogeek.com/214868/how-to-mirror-your-windows-or-android-devices-screen-on-your-roku/	6/30/2017			801/802; Not produced
PTX-620	x		Hoffman, Chris, “How to Use Your Roku Like a Chromecast,” How to Geek (September 5, 2017), available at https://www.howtogeek.com/214943/how-to-use-your-roku-like-a-chromecast/	9/5/2017			801/802; Not produced
PTX-621	x		ITU-T, “Series H: Audiovisual and Multimedia Systems Infrastructure of audiovisual services – Coding of moving video,” ITU-T Recommendation H.262 (“H.262 Standard”) (2000)	2000	MV3_ROKU0021496- MV3_ROKU0021715		801/802; Produced late
PTX-622	x		James J. Murphy, “Metadata” (2005) available at http://faculty.cbpp.uaa.alaska.edu/jmurphy/meta/metadata.xls (accessed January 13, 2020)				401/402; 403; Not produced

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PTX-623	x		U.S. Census Bureau and Bureau of Labor Statistics. "September 2019 Current Population Survey." Includes the following electronic files (accessed January 13, 2020): a. Current Population Survey FTP Site Electronic file "cps_data/cps_ftp.html.pdf" (http://thedataweb.rm.census.gov/ftp/cps_ftp.html). b. Current Population Survey Methodology Site Electronic file "cps_data/methodology.html.pdf" (https://www.census.gov/programs-surveys/cps/technical-documentation/methodology.html). c. Current Population Survey. "Design and Methodology." Technical paper, Electronic file "cps_data/tp-66.pdf" 66, October 2006 (http://www.census.gov/prod/2006pubs/tp-66.pdf). d. Current Population Survey Basic Monthly Data for June 2019 Electronic file "cps_data/sep19pub.dat.gz" (http://thedataweb.rm.census.gov/pub/cps/basic/201701-/sep19pub.dat.gz). e. September 2019 Data Ferrett CPS Extract on Home Ownership Electronic file "cps_data/201909_HETENURE.dat" (http://dataferrett.census.gov/). f. Current Population Survey Record Layout for Basic Labor Force Items, Standard Public Use Files, January 2017 to Present Electronic file "cps_data/January_2017_Record_Layout.txt" (http://thedataweb.rm.census.gov/pub/cps/basic/201701-/January_2017_Record_Layout.txt)		a. MV3_ROKU0016686; b. MV3_ROKU0016687-MV3_ROKU0016689; c. MV3_ROKU0016690-MV3_ROKU0016864; d. MV3_ROKU0016865-MV3_ROKU0016970; e. MV3_ROKU0016971-MV3_ROKU0020795; f. MV3_ROKU0020796-MV3_ROKU0021495		401/402; 403; 801/802; Produced late
PTX-624	x		Marais Wecker Electronic Files, Marais.Wecker.Electronic.files.20200115.zip				401/402; 403;
EXHIBITS THAT WILL NOT BE PROVIDED ELECTRONICALLY							
PTX-625	x		Roku's Source Code		ROKU_SC_000001-97		
PTX-626	x		TCL – ROKU TV				
PTX-627	x		Samsung Galaxy A20				
PTX-628	x		Roku Streaming Stick + Headphone Edition				
PTX-629	x		Roku Premiere HD 4K HDR				
PTX-630	x		Roku Streaming Stick + HD 4K HDR				
PTX-631	x		Roku Express HD				
PTX-632	x		Roku Ultra HD 4K HDR				

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PTX-633	x		Roku Express +				
PTX-634	x		Roku Ultra LT				
PTX-635	x		Roku Smart Soundbar				
PTX-636	x		Roku Streaming Stick				
PTX-637	x		Roku Express +				

MV3 hereby incorporates by reference documents on Roku’s exhibit list. MV3 also hereby reserves the right to use any and all documents, whether expressly listed or not, for purposes of impeachment. MV3 additionally reserves the right to supplement or amend this list in response to rulings of the Court and/or additional discovery that may be taken. MV3 also reserves the right to use any pleading of record as an exhibit. MV3’s inclusion of any document on this exhibit list is not an admission of admissibility.

MV3 reserves the right to object under Federal Rule of Evidence 105 and any other applicable rules to the extent Roku offers any exhibit that otherwise contains admissible evidence for an inadmissible purpose.

MV3 reserves the right to use excerpts of any of the exhibits on this list, as well as diagrams and figures contained in the reports of MV3's Experts.

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PLAINTIFF MV3 PARTNERS LLC'S SUPPLEMENTAL TRIAL EXHIBIT LIST

EXHIBIT NO.	EXPECT TO OFFER	MAY OFFER	EXHIBIT DESCRIPTION	EXHIBIT DATE	BATES RANGE	MV3's OBJECTIONS	ROKU's OBJECTIONS
PTX-638	X		American Statistical Association's Sections & Interest Groups, available at https://www.amstat.org/asa/membership/sections-and-interest-groups.aspx (accessed April 22, 2020)				401/402; 403; 801/802; 901; Not Produced
PTX-639	X		About the Journal of Survey Statistics and Methodology, available at https://academic.oup.com/jssam (accessed April 22, 2020)				401/402; 403; 801/802; 901; Not Produced
PTX-640	X		American Association for Public Opinion Research home page, available at https://www.aapor.org (accessed April 22, 2020)				401/402; 403; 801/802; 901; Not Produced
PTX-641	X		American Statistical Association home page, available at https://www.amstat.org (accessed April 22, 2020)				401/402; 403; 801/802; 901; Not Produced
PTX-642	X		Fritz Scheuren, "What is a Survey," American Statistical Association				401/402; 403; 801/802; 901; Not Produced
PTX-643	X		Mike Dickinson, "CAI aims to offer service throughout state," Rochester Business Journal (March 24 1997), available at https://rbj.net/1997/03/24/cai-aims-to-offer-service-throughout-state/ (accessed January 2, 2020)	3/24/1997			401/402; 403; 801/802; 901; Not Produced

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PTX-644	X		"Suits Come, Bells Go: Whither CAI Wireless?," Wired (January 27, 1997), available at https://www.wired.com/1997/01/suits-come-bells-go-whither-cai-wireless/ (accessed January 1, 2020)	1/27/1997			401/402; 403; 801/802; 901; Not Produced
PTX-645	X		Daniel L. Rubinfeld, "Quantitative Methods in Antitrust," Issues in Competition Law and Policy 723-42 (2008)	2008			401/402; 403; 801/802; 901; Not Produced
PTX-646	X		Mark L. Mitchell and Jeffry M. Netter, "The Role of Financial Economics in Securities Fraud Cases: Applications at the Securities and Exchange Commission," The Business Lawyer 49(2): 545-90 (February 1994)	1994			401/402; 403; 801/802; 901; Not Produced
PTX-647	X		"What is a Price Taker," Corporate Finance Institute, available at https://corporatefinanceinstitute.com/resources/knowledge/economics/price-taker/ (accessed March 26, 2020)				401/402; 403; 801/802; 901; Not Produced
PTX-648	X		Mark A. Allen et al., "Reference Guide on Estimation of Economic Damages," Reference Manual on Scientific Evidence (3rd ed.), Federal Judicial Center, National Research Council 491-92 (2011)	2011			401/402; 403; 801/802; 901; Not Produced
PTX-649	X		"Comparable Evidence in Real Estate Valuation," RICS Guidance Note, Global (1st ed.), Royal Institution of Chartered Surveys (RICS), (October 2019)	2019			401/402; 403; 801/802; 901; Not Produced

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PTX-650	X		"Revised APB Valuation Advisory #4, Identifying Comparable Properties," The Appraisal Foundation, Appraisal Practices Board (September 26, 2013)	9/26/2013			401/402; 403; 801/802; 901; Not Produced
PTX-651	X		Justin McCrary and Daniel L. Rubinfeld, "Measuring Benchmark Damages in Antitrust Litigation," Journal of Econometric Methods 3(1): 63-74 (2014)	2014			401/402; 403; 801/802; 901; Not Produced
PTX-652	X		Fady F. Bebawy, "A Primer on the Fundamental Elements of Damages Analysis," Williamette Management Associates, Insights (2018)	2018			401/402; 403; 801/802; 901; Not Produced

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